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COMMERCIAL FERTILIZERS

REPORT FOR 1941

E. M. BAILEY

Chemist in Charge



Connecticut
Agricultural Experiment Station
New Haven

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VIRGIL L. CHURCHILL

Virgil L. Churchill, a valued member of the Station staff for 46 years, died on March 22, 1941.

As sampling agent for this department he was well known to farmers and to manufacturers and dealers of the fertilizer and feed industries of the State on whom he called regularly, taking official samples of their goods for analysis by the Station.

Three features are essential in any plan of inspection and analysis, and they are all equally important. The field sample must be representative of the stock examined; the analysis must be accurate; and the results must be interpreted correctly. Mr. Churchill knew the importance of his part in this program. He did his work faithfully and well, without undue show of authority, and always with consideration for the interest and convenience of those whose premises he visited.

A plain, dependable and good man, Mr. Churchill won the confidence, the trust and the friendliness of all with whom he had to deal. It is a tribute to him as a man and as a public servant that he will be missed by so many — and remembered so long.

Commercial Fertilizers Report for 1941

E. M. BAILEY
Chemist in Charge

LAW AND REGULATIONS REGARDING COMMERCIAL FERTILIZERS

THE term "commercial fertilizers" as used in the Connecticut fertilizer statute includes any and every substance imported, manufactured, prepared or sold for fertilizing or manuring or soil amendment purposes, except barnyard manure and stable manure that have not been artificially treated or manipulated, marl and lime.

The seller is responsible for the proper labelling of each package of fertilizer, for the registration of each brand sold or offered for sale, for the payment of the required analysis fee and for the payment of the tonnage tax. If, however, proper labelling, registration and payments of analysis fees and of tonnage tax have been provided for by the manufacturer or by another responsible person, all sellers of such brands are released from the above mentioned requirements. The retailer, therefore, should assure himself that the requirements of the law have been met by the manufacturer of the brands which he handles, or himself be prepared to meet all these requirements.

It frequently happens that a manufacturer or jobber sells fertilizer materials which are the products of, and which are registered by, another firm or individual. Distributors in such cases should sell such materials by the exact brand names under which they are registered in order that there may be no mistake as to the identity of brands. Any change in the brand names, or failure to make the identity of the brand and its manufacturer clear, makes the distributor liable for the registration of the product as his own brand.

The law exempts from registration, and from other requirements referred to, only (1) fertilizers passing through the State in transit; (2) fertilizers and fertilizer materials shipped to regular fertilizer factories to be used for manufacturing purposes; and (3) fertilizers and fertilizer chemicals sold to the Connecticut Agricultural Experiment Station for experimental purposes.

Cottonseed, linseed and soybean meals, when sold or used for fertilizer purposes, must be registered as fertilizers and the specified fees paid thereon. For such products the registration fee is \$10.00 for each brand payable annually, and six cents per ton tonnage fee, payable semi-annually.

NOTE: Analyses reported in this bulletin were made by Messrs. Nolan, Mathis and Walden; microscopic examinations by Miss Shepard; inspection and sampling by Mr. Nichols; and compilations by Mrs. Vosburgh.

These fees are entirely apart from those required by the feeding stuffs statute.

Because manufacturers or jobbers often do not know how much, if any, of their brands are sold or used as fertilizers, local dealers report their sales to this Station. The information is not for publication but is used to inform manufacturers of the total sales of their brands as fertilizer in this State. It is expected that the fees will be paid by the manufacturers or other party responsible for the brands.

INSPECTION OF 1941

The Station Agent collected 322 official samples of fertilizer including all of the registered brands that could be located. These are summarized, together with unofficial samples submitted by farmers, in the classification list which follows, on page 48.

The tonnage data included in the summary are based on returns made to October 1 of this year and are practically complete. The tonnage represents that which is subject to the provisions of the fertilizer law; it does not include fertilizer materials distributed in the State under the Federal Agricultural Conservation program. The tonnage figures are for the period July 1, 1940 to June 30, 1941.

REGISTRATIONS

Late registrations for 1940

To the brands registered for 1940 in our last report should be added:
Ashcraft-Wilkinson Co., Atlanta, Ga.

Cottonseed Meal—Castor Pomace Mixture

Registrations for 1941

For 1941, 61 firms and individuals registered 332 brands of fertilizers at this Station for sale in this State. As required by statute, the brands so registered are listed as follows:

The Acme Guano Co., Baltimore, Md.

Acme 3-10-4
Acme 3-12-6
Acme 4-8-4
Acme Vitaflor 4-8-5
Acme 4-8-10
Acme 5-8-7
Acme Plant Food 7-7-7
Acme 20% Superphosphate

Ted Alkire, Lubbock, Texas

Kireal Cotton Hull Ash

American Agricultural Chemical Co., No. Weymouth, Mass.

AA 4-16-4 Fertilizer
AA 8-16-8 Fertilizer
AA 8-16-16 Fertilizer
AA Market Garden Fertilizer 4-8-4
AA Potato and Root Crop Fertilizer
4-8-10
AA Potato and Vegetable Fertilizer
5-8-7
AA 16% Superphosphate
AA 20% Superphosphate

- AA Tobacco Starter 5-5-15
 AA Top Dresser 7-7-7
 Agrico for Aroostook with 10% Potash 5-8-10
 Agrico for Corn 3-10-6
 Agrico for Corn 4-12-6
 Agrico Country Club Fertilizer 8-6-2
 Agrico Country Club Fertilizer 8-6-4
 Agrico for Fruit 8-8-4
 Agrico for Gardens 4-10-4
 Agrico for Lawns, Trees and Shrubs 7-7-5
 Agrico for New England 4-8-10
 Agrico for Potatoes and Vegetables 5-8-7
 Agrico for Seeding Down 4-16-20
 Agrico for Tobacco 6-3-6
 Agrico for Top Dressing 7-7-7
 Agrico for Truck 5-10-5
 Agrinite (All Organic Turf Food) 8.5
 Bradley's XL Fertilizer 3-10-4
 Castor Pomace
 Fine Ground Bone
 Muriate of Potash
 Pulverized Sheep and Goat Manure
 Sanderson's Formula B 4-8-7
- American Cyanamid Co., 30 Rockefeller Plaza, New York, N. Y.
 20.6% 'Aero' Cyanamid Granular
 21.0% 'Aero' Cyanamid Granular
 22.0% 'Aero' Cyanamid Pulverized
- American Potash & Chemical Corp., 70 Pine St., New York, N. Y.
 Trona Muriate of Potash
- Apothecaries Hall Co., Waterbury, Conn.
 Ammō-Phos 11-48-0
 Bone Meal 2.25
 Bone Meal 3.70
 Cal Nitro
 Castor Pomace
 Cotton Hull Ashes
 Dry Ground Fish
 Liberty Corn Fertilizer 3-12-6
 Liberty Green Gro 6-5-3
 Liberty High Analysis Fertilizer 8-16-16
 Liberty High Grade Corn Fertilizer 4-12-4
 Liberty High Grade Fertilizer for Fruit 10-5-5
 Liberty High Grade Market Gardeners 5-8-7
 Liberty High Grade Tobacco Manure 7-3-7
 Liberty High Grade Vegetable 5-10-10
 Liberty Manure Supplement 0-20-10
- Liberty Market Gardeners Spec. 4-8-4
 Liberty Potato and General Crops 4-8-10
 Liberty Special Fertilizer for Fruit and Grass 7-7-7
 Liberty Special Fertilizer for Lawns, etc. 4-4-0
 Liberty Tobacco Mixture 5-3-5
 Liberty Tobacco Mixture 6-3-6
 Liberty Tobacco Mixture 6-3-7
 Liberty Tobacco Starter 4-10-0
 Liberty Tobacco Starter with Potash 5-5-15
 Liberty Top Dresser for Grass and Grain 8-8-8
 Liberty Tree and Shrub Food 10-8-8
 Liberty Truck Garden and Onion Fertilizer 5-10-5
 Muriate of Potash
 Nitrate of Potash
 Precipitated Bone
 Sheep Manure
 Sulphate of Ammonia
 Sulphate of Potash
 Superphosphate 16%
 Superphosphate 20%
 Tankage
 Triple Superphosphate 40%
- Archer-Daniels-Midland Co., Minneapolis, Minn.
 37% Protein Old Process Linseed Meal
 44% Protein Soybean Oil Meal
- Armour Fertilizer Works, 120 Broadway, New York, N. Y.
 Armour's Big Crop Fertilizer 3-12-6
 Armour's Big Crop Fertilizer 4-8-4
 Armour's Big Crop Fertilizer 4-8-10
 Armour's Big Crop Fertilizer 5-8-7
 Armour's Big Crop Fertilizer 5-10-5
 Armour's Big Crop Fertilizer 5-10-10
 Armour's Big Crop Fertilizer 7-7-7
 Armour's Big Crop Fertilizer 8-16-20
 Armour's Big Crop Superphosphate 20%
 Armour's Big Crop Tobacco Special 5-3-5
 Armour's Big Crop Tobacco Special 6-3-6
 Armour's Big Crop Tobacco Special 7-3-7
 Armour's Big Crop Tobacco Starter 5-5-15
 Armour's Bone Meal Fertilizer 2.47-23
 Armour's Fertilizer 8-16-16
 Armour's Garden and Lawn Fertilizer 4-8-8
 Armour's Sheep and Goat Manure

Armour's Special Putting Green
Mixture 8-5-2
Cotton Seed Meal
Muriate of Potash

Ashcraft-Wilkinson Co., Atlanta, Ga.

Cottonseed Meal—Castor Pomace
Mixture
Coweta Brand Cottonseed Meal

**Associated Seed Growers, Inc.,
New Haven, Conn.**

Clark's Tip Top Fertilizer 5-8-7
Clark's 5-10-5 Fertilizer

**Atkins & Durbrow, Inc.,
165 John St., New York, N. Y.**
Driconure 2-1-1

**The Barrett Co., 40 Rector St.,
New York, N. Y.**

Arcadian The American Nitrate of
Soda
Arcadian Sulphate of Ammonia
Sulphate of Ammonia

**F. A. Bartlett Tree Expert Co., Inc.,
60 Canal St., Stamford, Conn.**
Bartlett Green Tree Food 6-7-4

**The Baugh & Sons Co.,
25 S. Calvert St., Baltimore, Md.**

Baughphos, The Ideal 20%
Superphosphate
Baugh's Fish Bone and Potash
Mixture 4-8-4
Baugh's Old Dependable Potato
Grower 4-8-10
Baugh's Perfection Brand 3-10-6
Baugh's Peruvian Guano Substitute
5-8-7
Baugh's Premium Plant Food and
Soil Builder 5-10-5
Baugh's Pure Steamed Bone Meal
Baugh's Raw Bone Meal,
Warranted Pure
Baugh's Special Top Dresser 7-6-6
Baugh's Truckers Favorite 5-10-5

**Berkshire Chemical Co.,
Bridgeport, Conn.**

Berkshire Castor Pomace
Berkshire Fertilizer 4-8-4
Berkshire Fertilizer 4-8-7
Berkshire Fertilizer 4-8-10
Berkshire Fertilizer 5-8-7
Berkshire Fertilizer 5-8-10
Berkshire Fertilizer 5-10-5
Berkshire Fertilizer 5-10-10
Berkshire Fertilizer Tobacco 6-3-6
Berkshire Fertilizer Grass Special
6-6-5

Berkshire Fertilizer 7-6-6
Berkshire Fertilizer 7-7-7
Berkshire Fertilizer 10-6-4
Berkshire Fine Ground Bone
Berkshire Golf Green Fertilizer 8-5-2
Berkshire Sheep and Goat Manure

**Bradley & Baker, 155 East 44th St.,
New York, N. Y.**

Cottonseed Meal—Castor Meal
Mixture

**Central Soya Co., Inc.,
Fort Wayne, Ind.**

Central Star Brand Soybean Oil
Meal 44%

**Chilean Nitrate Sales Corp.,
120 Broadway, New York, N. Y.**

Chilean Nitrate of Soda —
Champion Brand
Chilean Nitrate of Soda —
Original Old Style
Chilean Nitrate of Soda and Potash

**Connecticut Toro Co., 77 Wellington
St., Hartford, Conn.**

Netco 8-6-2

**Consolidated Rendering Co.,
178 Atlantic Ave., Boston, Mass.**

Corenco 3-10-4 Animal Brand
Corenco 4-8-4 Corn and Vegetable
Corenco 4-8-7 Market Garden
Corenco 4-8-10 Potato Grower
Corenco 5-5-5 Lawn and Shrub
Corenco 5-5-15 Tobacco Starter
Corenco 5-8-7 General Crop Manure
Corenco 5-8-10 Peerless Potato
Corenco 5-10-5 Super Truck
Corenco 6-3-6 Special Tobacco
Grower
Corenco 7-6-6 Complete Fruit and
Top Dressing
Corenco 7-7-7 Complete Fruit and
Top Dressing
Corenco 8-16-14 Two-in-One
Corenco Ground Bone
Corenco Raw Bone Fertilizer
Corenco Sheep Manure
Ground Tankage
Muriate of Potash
Sulphate of Ammonia 20.5%
Superphosphate 16%
Superphosphate 20%

**The Davey Tree Expert Co.,
Kent, Ohio**

Davey Shredded Cattle Manure
1-1-2
Davey Tree Food 12-4-4

The Davison Chemical Corp.,
Baltimore, Md.

Davco Granulated 20%
Superphosphate

E. I. duPont de Nemours & Co., Inc.,
Wilmington, Del.

Uramon Fertilizer Compound

Eastern States Farmers' Exchange,
Springfield, Mass.

Ammo-Phos, product of American
Cyanamid Co.

Eastern States 0-20-20

Eastern States 4-16-20

Eastern States 5-5-15 Tobacco

Eastern States 5-10-5

Eastern States 5-10-10

Eastern States 5-15-5

Eastern States 7-7-7

Eastern States 7-14-21

Eastern States 8-4-8 Tobacco

Eastern States 8-16-8

Eastern States 8-16-16

Eastern States 8-16-16 LCS

(Low Chlorine Special)

Eastern States 8-16-16 SM

(Soluble Magnesium)

Eastern States 8-24-8

Eastern States 10-5-5

Eastern States 10-10-10

Eastern States Agricultural Urea

Eastern States Castor Pomace

Eastern States Cottonhull Ash

Eastern States Cottonseed—

Castor Meal

Eastern States Dry Ground Fish

Eastern States Ground Steamed

Bone

Eastern States Muriate of Potash

Eastern States Sulphate of Ammonia

Eastern States Sulphate of Potash

Eastern States Superphosphate 20%

Eastern States Superphosphate 47%

Triple

Thomas W. Emerson Co.,
213-215 State St., Boston, Mass.

Emseco All Use Fertilizer 7-7-7

English Formula Lawn and Garden

Dressing 5-7-3

Faesy & Besthoff, Inc., 22 E. 40th St.,
New York, N. Y.

Bone Meal

Ford Motor Co., Dearborn, Michigan

Ford Ammonium Sulphate

General Chemical Co., Mechling
Products Div., Camden, N. J.

Veget-Aid 5-10-4

Glidden Co., Soya Products Div.,
5165 W. Moffat St., Chicago, Ill.

Glidden 4 Hi Brand 44% Protein
Soybean Oil Meal

Goulard & Olena, Inc., 140 Liberty St.,
New York, N. Y.

G & O Ground Bone

G & O Lawn, Garden and Flower

Fertilizer 5-8-5

G & O Sheep Manure

J. B. Golf Greens 10-4-3

Greenlands Services, Inc.,
Concord, N. H.

Fertilizers for Lawns and Grasses
6-8-6

Fertilizers for Rhododendrons and
Evergreens 4-6-4

A. H. Hoffman, Inc., Landisville, Pa.

Hoffman's Bone Meal

Hoffman's Cow Manure

Hoffman's Sheep Manure

Humphreys-Godwin Co.,
Memphis, Tenn.

Bull Brand Prime 43% Protein

Cottonseed Meal

Dixie Brand Prime 41% Protein

Cottonseed Meal

Killen & Hall, Inc., Darien, Conn.

Killen and Hall Tree Food 8-5-2

Kuiper & Bolle, 508 Produce
Exchange, New York, N. Y.

Kay-Bee Brand Linseed Meal

L. B. Lovitt & Co., Memphis, Tenn.

"Lovit Brand" 41% Protein

Cottonseed Meal

McArdle's Seed Store, 388 Greenwich
Ave., Greenwich, Conn.

McArdle's Special Fertilizer 6-5-3

Meador & Co., Inc., 10 West 33rd St.,
New York, N. Y.

"Purifine" Brand Linseed Oil Meal

National Lead Co., 111 Broadway,
New York, N. Y.

Dutch Boy 32% O. P. Linseed Meal

Old Deerfield Fertilizer Co., Inc.,
South Deerfield, Mass.

Castor Pomace

Cotton Hull Ashes

Cottonseed Castor Mixture 41%
Protein

Old Deerfield 4-8-7
 Old Deerfield 5-5-15 Tobacco
 Starter Bone and Potash
 Old Deerfield 5-8-7 and 2% (Potash
 other than Muriate)
 Old Deerfield 5-10-10
 Old Deerfield 6-3-7 Tobacco
 Old Deerfield 8-16-20
 Old Deerfield Dry Ground Fish
 Old Deerfield Fine Ground Bone

Olds & Whipple, Inc., Hartford, Conn.

High Grade Sulphate of Potash
 48% K₂O
 Horn and Hoof Meal
 O & W 3-10-4 Corn Special
 Fertilizer
 O & W 4-8-4 Market Garden
 Fertilizer
 O & W 4-8-7 Potato and General
 Purpose Fertilizer
 O & W 5-3-5 Complete Tobacco
 Fertilizer
 O & W 5-5-15 H. G. Tobacco
 Starter and Potash Compound
 O & W 5-8-7 Potato and General
 Purpose Fertilizer
 O & W 5-10-10 Fertilizer
 O & W 6-3-5 Blue Label Tobacco
 Fertilizer (Potash derived from
 Cotton Hull Ashes)
 O & W 6-3-6 Blue Label Tobacco
 Fertilizer
 O & W 6-3-6 Blue Label Tobacco
 Fertilizer (Potash derived from
 Cotton Hull Ashes)
 O & W 6-3-7 Special Tobacco
 Fertilizer
 O & W 7-6-6 Fertilizer
 O & W 7-7-7 Top Dressing and
 Grass Fertilizer
 O & W Bone Meal
 O & W Castor Pomace
 O & W Cotton Hull Ashes
 O & W Dry Ground Fish
 O & W Nitrate of Potash
 O & W Precipitated Bone
 Phosphate
 O & W Superphosphate 16%
 O & W Superphosphate 20%
 So. American Cottonseed Meal 95%
 —Castor Pomace 5% Mixture

Outpost Nurseries, Inc., Ridgefield, Conn.

Outpost Plant Food 8-5-2

Plantspur Products Co., Ridgefield, N. J.

Plantspur Fertilizer 3-3-2

Frank S. Platt Co., New Haven, Conn.
 Platco 5-8-7 Fertilizer
 Platt's 10-5-5 Sp. Lawn Fertilizer

The Pulverized Manure Co., 503 Ex- change Bldg., Union Stock Yard, Chicago, Ill.

Wizard Brand Cow Manure
 Wizard Brand Pulverized Sheep
 Manure

The Rogers & Hubbard Co., Portland, Conn.

Cotton Hull Ash
 Hubbard's All Soils Fertilizer 4-8-4
 Hubbard's Castor Pomace
 Hubbard's Climax Tobacco
 Fertilizer 5-3-5
 Hubbard's Corn Fertilizer 4-8-7
 Hubbard's Corn and Grain
 Fertilizer 3-10-4
 Hubbard's Dry Ground Fish Meal
 Hubbard's Fine Ground Bone
 Hubbard's Fruit Fertilizer 8-8-8
 Hubbard's Golf Course Fertilizer
 8-6-2
 Hubbard's Gro-Fast Fertilizer 5-8-6
 Hubbard's High Potash Fertilizer
 4-8-10
 Hubbard's Mus-Gro 4-14-0
 Hubbard's Potato Fertilizer 5-8-7
 Hubbard's Raw Knuckle Bone Flour
 Hubbard's Seeding Fertilizer
 Hubbard's Sheep and Goat Manure
 Hubbard's Strictly Pure Bone
 Hubbard's 16% Superphosphate
 Hubbard's 20% Superphosphate
 Hubbard's Tobacco Grower 6-3-6
 Hubbard's Top Dressing
 Hubbard's Vegetable Manure
 Red H Brand 4-8-4
 Red H Brand 4-8-7
 Red H Brand 4-8-10
 Red H Brand 5-8-7
 Red H Brand 5-10-10
 Red H Brand 7-6-6
 Red H Brand 7-7-7
 Red H Brand 8-16-14
 Yale Special Mixture 8-6-4

Ruhm Phosphate & Chemical Co., Mt. Pleasant, Tenn.

Red Seal Brand Ruhm's Phosphate
 Rock (Washed and Ground)

O. M. Scott & Sons Co., Marysville, Ohio

Scott's Turf Builder 10-6-4

Sewerage Commission of the City of Milwaukee, Milwaukee, Wis.

Milorgonite

M. L. Shoemaker Co., Philadelphia, Pa.
Shoemaker's "Swift-Sure" 4-10-0
Tobacco Starter

Soil Builders, Inc., Dunnellon, Fla.
Min-Coll

A. E. Staley Manufacturing Co.,
Decatur, Ill.
Staley's Soy-Al-King

Standard Wholesale Phosphate & Acid
Works, Inc., Baltimore, Md.
Standard 20% Superphosphate

Stumpp & Walter Co., 132 Church St.,
New York, N. Y.

Sawco Bone Fertilizer 2.47—24.00%

Sawco Cattle Manure

Sawco Emerald Grass Fertilizer
5-7-3

Sawco General Garden Fertilizer
5-10-5

Sawconure 3-1-1

Sawco Pulverized Sheep Manure
2-1-2

Sawco Rose Food 3-4-2

Summers Fertilizer Co., Inc.,
Baltimore, Md.

Summers "Best on Earth" 5-8-7

Summers "Best on Earth" 8-5-2

Summers "Best on Earth"

20% Superphosphate

Summers "Best on Earth"

40% Superphosphate

Swift & Co. Fertilizer Works,
Baltimore, Md.

Bone Meal Fertilizer

Roselawn 5-8-7

Swift's Sheep Manure 1.85-1-1.75

Swift's Special Golf Fertilizer 6-12-4

Swift's Special Golf Fertilizer 12-6-4
Vigoro

Tennessee Corp., Lockland, Ohio
Loma (5-10-4)

I. P. Thomas & Son Co., 721 Market
St., Camden, N. J.

I. P. Thomas 3-10-6

I. P. Thomas 5-8-7

Walker-Gordon Laboratory Co., Inc.,
Plainsboro, N. J.

Bovert

Bovung (Dehydrated Cow Manure)

F. H. Woodruff & Sons, Inc.,
Milford, Conn.

Gro-Sod Lawn Food 10-6-4

Woodruff Fertilizer Works, Inc.,
Orange, Conn.

Woodruff's Big Crop Fertilizer 5-8-7

Woodruff's Corn Fertilizer 4-16-4

Woodruff's Double Strength

Fertilizer 8-16-16

Woodruff's Market Garden

Fertilizer 4-8-4

Woodruff's Superphosphate 20%

Woodruff's 3-10-6 Fertilizer

Woodruff's Top Dresser 7-6-6

Woodruff's Yankee Special

Fertilizer 5-10-5

CLASSIFICATION OF FERTILIZER MATERIALS AND FERTILIZER TONNAGE

| | Page No. | Number of Samples | Tonnage | |
|---|----------|----------------------|---------|--------|
| I. <i>Containing Chiefly Nitrogen</i> | | | | |
| Nitrate of soda | 55 | 6 | 1,285 | |
| Ammonium sulphate | 55 | 6 | 272 | |
| Castor pomace | 57 | 9 | 2,358 | |
| Cottonseed meal (and C.S.M.-C.P.).. | 57 | 138 | 11,321 | |
| Linseed meal | 58 | 19 | 474 | |
| Soybean meal | 58 | 11 | 545 | |
| Other materials | 55 | 17 | 388 | 16,643 |
| II. <i>Containing Chiefly Phosphoric Acid</i> | | | | |
| Superphosphate | 59 | 34 | 5,328 | |
| Precipitated bone | 60 | 8 | 307 | |
| Other materials | 60 | 1 | 3 | 5,638 |
| III. <i>Containing Chiefly Potash</i> | | | | |
| Muriate of potash | 61 | 5 | 676 | |
| Sulphate of potash | 61 | 5 | 287 | |
| Cottonhull ashes | 61 | 44 | 1,637 | 2,600 |
| IV. <i>Containing Nitrogen and Potash</i> | | | | |
| Nitrate of potash | 51 | 6 | 158 | |
| Nitrate of potash-soda | 52 | 5 | 267 | 425 |
| V. <i>Containing Nitrogen and Phosphoric Acid</i> | | | | |
| Dry ground fish | 62 | 26 | 1,250 | |
| Tankage, etc. | 63 | 3 | 485 | |
| Ground bone | 64 | 40 | 1,415 | |
| Other materials | 52, 63 | 4 | 176 | 3,326 |
| VI. <i>Mixed Fertilizers</i> | | | | |
| Commercial mixtures | 66-79 | 195 | 29,775* | |
| Special and home mixtures | 81-86 | 73 | 2,596 | 32,371 |
| VII. <i>Miscellaneous</i> | | | | |
| Sheep manure, etc. | 87, 88 | 17 | 594 | |
| Lime | 89-92 | 42 | ..... |  |
| Other materials | 93 | 38 | ..... |  |
| Check meals and fertilizers | 54 | 42 | ..... | 594 |
| Totals | | 794 | | 61,597 |

* For detailed statement of this tonnage see next page.

MIXED FERTILIZER TONNAGE

Fertilizer ratios and grades recommended for Connecticut
(University of Connecticut Extension Service, Bul. 302, Jan. 1941)

| Ratio | Grade | No. of brands | Tonnage |
|-------|-------------------------|---------------|---------|
| 1-1-1 | 7-7-7 | 10 | 1,305 |
| | 8-8-8 } 10-10-10 } | 3 | 354 |
| 1-1-3 | 5-5-15 | 7 | 673 |
| 2-1-1 | 10-5-5 | 3 | 109 |
| 2-1-2 | 6-3-6 | 8 | 3,061 |
| | 7-3-7* } 8-4-8 } | 3 | 1,261 |
| 1-2-1 | 5-10-5 } 8-16-8 } | 14 | 819 |
| 1-3-1 | 4-12-4 | 3 | 530 |
| | 5-15-5 } 8-24-8 } | 3 | 513 |
| 1-2-2 | 4-8-8 } 5-10-10 } | 8 | 1,258 |
| | 8-16-16 | 8 | 992 |
| | 5-8-7* | 21 | 9,030 |
| | 4-8-10* } 8-16-20* } | 12 | 1,160 |
| 1-4-2 | 3-12-6 | 3 | 232 |
| 1-4-5 | 4-16-20 | 3 | 153 |
| Total | | | 21,450 |

Miscellaneous grades supplying 20 or more units of plant food

| Ratio | Grade | No. of brands | Tonnage |
|-------|---|---------------|---------|
| ..... | 0-20-10 } 8-8-4 } 4-16-4 } 4-12-6 } 7-14-21 } | 7 | 390 |
| ..... | 10-8-8 } 10-8-6 } 12-6-4 } 12-4-4 } | 4 | 50 |
| ..... | 10-6-4 } 8-5-8 } 6-12-4 } | 11 | 311 |
| ..... | 5-8-10 } 8-16-14 } 0-20-20 } | 8 | 782 |
| Total | | | 1,533 |

*Not recommended ratios but commonly used in Connecticut.

MIXED FERTILIZER TONNAGE—(Concluded)

Miscellaneous grades supplying less than 20 units of plant food

| Ratio | Grade | No. of brands | Tonnage |
|-------|----------|---------------|---------|
| | 5-8-6 } | 7 | 406 |
| ..... | 3-4-2 } | | |
| ..... | 4-4-0 } | | |
| ..... | 4-10-0 } | | |
| ..... | 4-14-0 } | | |
| | 3-3-2 } | 5 | 267 |
| ..... | 6-6-5 } | | |
| ..... | 6-7-4 } | | |
| ..... | 7-7-5 } | | |
| | 7-6-6 | 6 | 344 |
| | 6-5-3 } | 8 | 206 |
| ..... | 8-6-2 } | | |
| ..... | 8-6-4 } | | |
| ..... | 10-4-3 } | | |
| | 8-5-2 | 5 | 131 |
| | 5-3-5 } | 6 | 736 |
| ..... | 5-5-5 } | | |
| | 6-3-7 | 3 | 1,092 |
| | 4-8-4 | 11 | 1,923 |
| | 3-10-4 | 5 | 378 |
| | 4-8-7 | 9 | 543 |
| | 6-3-5 } | 3 | 156 |
| ..... | 4-10-4 } | | |
| ..... | 3-7-6 } | | |
| | 3-10-6 | 6 | 539 |
| | 4-8-5 } | 5 | 71 |
| ..... | 5-7-3 } | | |
| ..... | 5-8-5 } | | |
| ..... | 5-10-4 } | | |
| Total | | | 6,792 |

I. RAW MATERIALS CHIEFLY VALUABLE FOR NITROGEN

Nitrate of Soda, etc.

Materials in this group are summarized in Table 1. Guaranties were substantially met or exceeded in all cases.

Samples drawn and submitted by purchasers are not included in the tabulation.

Vegetable Meals

Samples of cottonseed meal-castor pomace 904 to 909 inclusive were drawn from stock of L. B. Haas & Co. The average of 6 samples was 6.01 percent nitrogen, and 7.69 percent moisture. The average of 8 samples drawn and submitted by the purchaser was 6.11 percent nitrogen and 6.57 percent moisture. On a moisture-free basis the agreement between official samples and those submitted by the purchaser is very close, 6.51 percent and 6.54 percent nitrogen respectively. This meal was a Peruvian product.

Analyses of vegetable meals are given in Table 2.

II. RAW MATERIALS CHIEFLY VALUABLE FOR PHOSPHORIC ACID

Superphosphate formerly contained 16 percent of available phosphoric acid but in recent years 20 to 40 percent grades are common. One sample this year contained 47 percent. All samples examined met their guaranties except in two cases where slight deficiencies were noted.

One sample of precipitated bone was below guaranty. An unofficial sample from the same source, however, was not deficient. The stock was exhausted before a second official sample could be obtained.

Min-Coll is a natural phosphate valuable only as a source of total phosphoric acid. The phosphoric acid is largely in citrate-insoluble form.

Analyses of materials in this group are given in Table 3.

III. RAW MATERIALS CHIEFLY VALUABLE FOR POTASH

Official samples of potash salts and of cottonhull ashes are listed in Table 4.

Guaranties were met or exceeded in all samples examined.

The Old Deerfield Fertilizer Co. registered cottonhull ashes 35 percent K_2O . No official samples were secured but several samples submitted by purchasers were analyzed and met the guaranty.

IV. RAW MATERIALS SUPPLYING NITROGEN AND POTASH

No official samples of nitrate of potash were taken, but six samples were examined for purchasers.

One official sample of nitrate of potash-soda, the same registered by the Chilean Nitrate Sales Corp., New York, and sampled from stock of Apothecaries Hall Co., was examined and found to meet the guaranties. Nitrogen found 15.06 percent, guaranteed 15; potash found 15.31 percent, guaranteed 14.

V. RAW MATERIALS SUPPLYING NITROGEN AND PHOSPHORIC ACID

Analyses of official samples of dry ground fish, of tankage and of ground bone are given in Tables 5, 6 and 7, respectively.

One sample of tankage showed a slight deficiency in nitrogen.

Sample 258, steamed bone meal, was deficient in total phosphoric acid. The sample contained 0.7 percent of nitrogen in the form of ammonium salt and some mineral phosphate was present. It was not straight steamed bone. The purchase involved only a one-quarter ton lot.

Ammo-Phos, although not an organic and not included in tabulations above named, may be included in this group as a source of nitrogen and phosphoric acid. One sample taken from stock of Apothecaries Hall Co. was guaranteed nitrogen 11 percent, available P_2O_5 48 percent. It analyzed 10.79 nitrogen and 48.82 P_2O_5 .

VI. MIXED FERTILIZERS

Analyses of 183 official samples of mixed fertilizers are given in Table 8. Results may be summarized as follows:

| | |
|---|------------------|
| Total number of samples | 183 |
| Samples deficient in | |
| one item | 38 |
| two items | 6 |
| three items | 0 |
| Percentage of samples meeting guaranties in all items | 75 |
| Total guaranties made | 547 ¹ |
| Guaranties not met: | |
| nitrogen | 21 |
| phosphoric acid | 14 |
| potash | 15 |
| Percentage of guaranties met | 91 |

¹Two samples with only two items guaranteed.

Seventy-five percent of the samples analyzed substantially met or exceeded guaranties in all respects; and 91 percent of guaranties made were fulfilled. Only three samples showed commercial deficiencies in excess of \$1.00 per ton. These were 542, Acme 4-8-4, (\$1.29); 809, Armour's 8-16-16 (\$1.62), and 676, G & O 5-8-5, (\$1.65).

The distribution of chemical deficiencies is given in Table 8a. They are notably less than in the two years previous. Deficiencies of 0.1 percent or less in nitrogen, and 0.2 percent or less in available phosphoric acid and potash are not included.

Organic nitrogen of inferior quality was indicated in 861, Plantspur 3-3-2. The nitrogen guaranty is nearly met with nitrogen from ammonium salts; but the activity of the insoluble organic nitrogen was low by both the alkaline and the neutral permanganate methods, 40 and 36 respectively.

Home Mixtures

Analyses of home mixed fertilizer are given in Table 9. For the most part these are formulas for tobacco.

State Purchases of Fertilizer

Fertilizers sold on state purchase orders for the use at state institutions are included in our regular inspection by request of the State Supervisor of Purchases. The fertilizer law provides no exemption from registration and tonnage tax for such sales; the only exemption is for fertilizer sold to the Experiment Station for experimental purposes.

State purchase orders often call for fertilizer mixtures of odd and irregular grades which puts an unwarranted burden upon the manufacturer who must register such brands. The situation would be materially improved if such orders were confined to those grades that have been adopted by agreement among agronomists as serving all practical agricultural needs for our New England area. (See p. 49 of this report).

Samples of goods sold on state purchase orders are indicated by footnotes in the several tables. A summary of them is as follows:

| No. of samples | Material | Reference |
|----------------|-----------------------|-----------|
| 7 | Nitrate of soda, etc. | Table 1 |
| 5 | Superphosphate, etc. | " 3 |
| 3 | Potash salts | " 4 |
| 1 | Bone | " 7 |
| 14 | Mixed Fertilizers | " 8 |

All of these samples were of the substance and quality demanded and without significant commercial deficiencies, except the sample of bone which has already been commented upon, p. 52.

VII. MISCELLANEOUS

Analyses of official samples of sheep manure and similar materials are given in Table 10.

Liming materials are not required to be registered in this State but many samples have been examined for purchasers and a few official samples have been drawn. Analyses are given in Table 11.

Thirty-eight samples of other miscellaneous materials have been examined. Some of these are listed in Table 12 for reference purposes.

Sample 1138 was vegetable waste (apparently tea leaf waste) treated with liming material. Such material is sold by itinerant vendors from trucks and is usually brought in from outside the State. It is in a wet

condition and usually contains from 40 to 50 percent of water. Such material, however it may be represented, is not a "fertilizer" in the common understanding of that term, and not accepted for registration under our fertilizer law, because it supplies only an insignificant amount of plant food (nitrogen, phosphoric acid and potash). It does, however, contain a considerable amount of organic matter which has some value as a mulch and as a soil conditioner because of its moisture-holding capacity. Sample 1138, for example, in spite of the fact that it contains 840 lbs. of water to the ton, contains also, 788 lbs. of organic matter. The worth of such organic matter is fairly comparable with that in peat moss or in peat or muck from local deposits. Thus a bushel (weighing about 30 lbs.) would contain about 12 lbs. of organic matter. At 1.25 to 2 cents per pound the purchaser will pay for organic matter at about the same rate that he does when he buys peat moss or swamp muck locally. But clearly it would be better for purchasers to investigate local sources of supply than to absorb the cost of hauling such material from remote places, and assume the risk of uncertain substance and quality of material from unknown sources.

The laboratory has continued to take part in the collaborative programs of the American Oil Chemists Society and of the F. S. Royster Guano Co. and has analyzed 42 samples of cottonseed meal and mixed fertilizers. These programs are participated in by state, commercial and industrial chemists in the interest of uniformity in control work.

TABLE 1. ANALYSES OF NITRATE OF SODA, ETC.

| Station No. | Manufacturer or Jobber | Sampled from stock of | Per cent nitrogen | |
|---------------------|---|--|-------------------|------------|
| | | | Found | Guaranteed |
| Nitrate of Soda | | | | |
| 257 ¹ | Arcadian The American. The Barrett Co., New York, N. Y. | Cheshire: Cheshire Reformatory | 16.10 | 16.00 |
| 535 ¹ | Arcadian The American. The Barrett Co., New York, N. Y. | Newtown: Fairfield State Hospital | 16.08 | 16.00 |
| 739 | Arcadian The American. The Barrett Co., New York, N. Y. | East Hartford: John M. Herr | 16.14 | 16.00 |
| 785 ¹ | Arcadian The American. The Barrett Co., New York, N. Y. | Mansfield Depot: Mansfield State Training School.... | 16.22 | 16.00 |
| 463 | Chilean, Champion Brand. Chilean Nitrate Sales Corp., New York, N. Y. | West Haven: American Agricultural Chemical Co. | 16.04 | 16.00 |
| Cyanamid | | | | |
| 447 | 21% 'Aero' Granular. American Cyanamid Co., New York, N. Y. | Hamden: Henry D. Peters.. | 21.08 | 21.00 |
| 533 ¹ | 21% 'Aero' Granular. American Cyanamid Co., New York, N. Y. | Newtown: Fairfield State Hospital | 22.00 | 21.00 |
| 761 ¹ | 20% 'Aero' Granular. American Cyanamid Co., New York, N. Y. | Middletown: Middletown State Hospital | 21.00 | 21.00 |
| Urea, etc. | | | | |
| 525 | Eastern States. Eastern States Farmers' Exchange, Springfield, Mass. | So. Windsor: I. Stone | 42.40 | 42.00 |
| 736 | Uramon Fertilizer Compound. E. I. duPont de Nemours & Co., Inc., Wilmington, Del. | East Hartford: John M. Herr | 42.00 | 42.00 |
| Sulphate of Ammonia | | | | |
| 422 | Apothecaries Hall Co., Waterbury, Conn. | East Windsor: Apothecaries Hall Co. | 20.44 | 20.50 |
| 683 ¹ | Arcadian. The Barrett Co., New York, N. Y. | Niantic: Seaside Sanatorium | 20.84 | 20.60 |
| 762 ¹ | Arcadian. The Barrett Co., New York, N. Y. | Middletown: Middletown State Hospital | 20.94 | 20.60 |
| 814 | Eastern States. Eastern States Farmers' Exchange, Springfield, Mass. | East Hartford: Eastern States Farmers' Exchange | 20.62 | 20.50 |
| 766 | Ford. Ford Motor Co., Dearborn, Mich. | Middletown: Longworth & Carlson | 20.80 | 20.80 |

¹State purchase.

TABLE 1. ANALYSES OF NITRATE OF SODA, ETC.—(Concluded)

| Station No. | Manufacturer or Jobber | Sampled from stock of | Per cent nitrogen | |
|-------------|---|---|-------------------|------------|
| | | | Found | Guaranteed |
| 452 | Agrinite (All Organic Turf Food). American Agricultural Chemical Co., No. Wey- mouth, Mass. | West Haven: American Agricultural Chemical Co. | 9.85 | 8.50 |

TABLE 2. ANALYSES OF CASTOR POMACE, COTTONSEED MEAL, ETC.

| Station No. | Manufacturer or Jobber | Sampled from stock of | Per cent nitrogen | |
|-----------------|--|--|-------------------|------------|
| | | | Found | Guaranteed |
| Castor Pomace | | | | |
| 878 | American Agricultural Chemical Co., No. Weymouth, Mass. | West Haven: American Agricultural Chemical Co. | 5.04 | 4.50 |
| 428 | Apothecaries Hall Co., Waterbury, Conn. | East Windsor: Apothecaries Hall Co. | 5.57 | 4.50 |
| 740 | Apothecaries Hall Co., Waterbury, Conn. | East Hartford: John M. Herr | 5.81 | 4.50 |
| 518 | O & W Olds & Whipple, Inc., Hartford, Conn. | East Hartford: Olds & Whipple, Inc. | 5.76 | 4.50 |
| Cottonseed Meal | | | | |
| 804 | Cottonseed Meal—Castor Pomace Mixture. Ashcraft-Wilkinson Co., Atlanta, Ga. | So. Windsor: Cohen Bros... | 6.64 | 6.58 |
| 424 | Cottonseed Meal—Castor Pomace Mixture. Bradley & Baker, New York, N. Y. | East Windsor: Apothecaries Hall Co. | 7.57 | 6.56 |
| 920 | Dixie. Humphreys-Godwin Co., Memphis, Tenn. | Bloomfield: Bloomfield Farmers' Exchange | 6.56 | 6.56 |
| 1119 | "Lovit 41%." L. B. Lovitt & Co., Memphis, Tenn. | West Suffield: A. N. Shepard | 6.41 | 6.56 |
| 890 | Cottonseed-Castor Mixture. Old Deerfield Fertilizer Co., So. Deerfield, Mass. | Glastonbury: E. J. Bantle.. | 6.62 | 6.56 |
| 832 | Cottonseed-Castor Mixture. Old Deerfield Fertilizer Co., So. Deerfield, Mass. | Suffield: James Davis | 6.21 | 6.56 |
| 904 | Cottonseed-Castor Mixture. Old Deerfield Fertilizer Co., So. Deerfield, Mass. | Hazardville: L. B. Haas & Co. | 6.04 | 6.56 |
| 905 | Cottonseed-Castor Mixture. Old Deerfield Fertilizer Co., So. Deerfield, Mass. | Hazardville: L. B. Haas & Co. | 6.01 | 6.56 |
| 906 | Cottonseed-Castor Mixture. Old Deerfield Fertilizer Co., So. Deerfield, Mass. | Hazardville: L. B. Haas & Co. | 6.07 | 6.56 |
| 907 | Cottonseed-Castor Mixture. Old Deerfield Fertilizer Co., So. Deerfield, Mass. | Hazardville: L. B. Haas & Co. | 5.98 | 6.56 |
| 908 | Cottonseed-Castor Mixture. Old Deerfield Fertilizer Co., So. Deerfield, Mass. | Hazardville: L. B. Haas & Co. | 6.02 | 6.56 |
| 909 | Cottonseed-Castor Mixture. Old Deerfield Fertilizer Co., So. Deerfield, Mass. | Hazardville: L. B. Haas & Co. | 5.93 | 6.56 |

TABLE 2. ANALYSES OF CASTOR POMACE, COTTONSEED MEAL, ETC.—(Concluded)

| Station No. | Manufacturer or Jobber | Sampled from stock of | Per cent nitrogen | |
|--------------|--|--|-------------------|-------|
| | | | Guaranteed | Found |
| Linseed Meal | | | | |
| 1015 | Kay-Bee. Kuiper & Bolle, New York, N. Y. | Simsbury: Cullman Bros., Farm No. 2 | 5.47 | 5.12 |
| Soybean Meal | | | | |
| 1016 | 44%. Archer-Daniels-Midland Co., Minneapolis, Minn. ... | Simsbury: Cullman Bros., Farm No. 2 | 7.33 | 7.04 |
| 1014 | Central Star. Central Soya Co., Inc., Fort Wayne, Ind. | No. Bloomfield: Consolidated Cigar Corp. | 7.40 | 7.04 |
| 783 | Glidden 4 Hi. The Glidden Co., Chicago, Ill. | Darien: Ring's End Fuel Co. | 7.07 | 7.04 |

TABLE 3. ANALYSES OF SUPERPHOSPHATE, ETC.

Analyses

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| Station No. | Manufacturer or Wholesale Dealer | Dealer or Purchaser | Phosphoric acid "Available" | | | |
|------------------|---|--|--------------------------------|-------|-------|------------|
| | | | Citrate-insoluble | Total | Found | Guaranteed |
| | Superphosphate | | % | % | % | % |
| 545 | Acme 20%. The Acme Guano Co., Baltimore, Md. | Suffield: Spencer Bros., Inc. | 0.78 | 22.06 | 21.28 | 20.00 |
| 456 | AA 16%. American Agricultural Chemical Co., No. Weymouth, Mass. | West Haven: American Agricultural Chemical Co. | 0.40 | 18.20 | 17.80 | 16.00 |
| 764 ¹ | AA 16%. American Agricultural Chemical Co., No. Weymouth, Mass. | Middletown: Long Lane Farm | 0.71 | 17.51 | 16.80 | 16.00 |
| 332 | AA 20%. American Agricultural Chemical Co., No. Weymouth, Mass. | West Haven: American Agricultural Chemical Co. | 1.00 | 21.44 | 20.44 | 20.00 |
| 414 | 16%. Apothecaries Hall Co., Waterbury, Conn. | East Windsor: Apothecaries Hall Co. ... | 0.25 | 17.33 | 17.08 | 16.00 |
| 769 | 20%. Apothecaries Hall Co., Waterbury, Conn. | Greenwich: McArdle's Seed Store | 0.47 | 21.40 | 20.93 | 20.00 |
| 813 | Armour's Big Crop 20%. Armour Fertilizer Works, New York, N. Y. | East Windsor Hill: David Ahern | 1.00 | 20.39 | 19.39 | 20.00 |
| 821 | Baughphos, The Ideal 20%. The Baugh & Sons Co., Baltimore, Md. | Hamden: Hamden Lehigh Coal Co. | 0.39 | 20.43 | 20.04 | 20.00 |
| 375 | 16%. Consolidated Rendering Co., Boston, Mass. | Branford: Collins & Freeman | 0.75 | 17.54 | 16.79 | 16.00 |
| 538 | 20%. Consolidated Rendering Co., Boston, Mass. | Danbury: Barnum Feed Store | 0.79 | 20.79 | 20.00 | 20.00 |
| 485 | Davco Granulated 20%. The Davison Chemical Corp., Baltimore, Md. | Bridgeport: Berkshire Chemical Co. | 0.70 | 22.08 | 21.38 | 20.00 |
| 521 | Eastern States 20%. Eastern States Farmers' Exchange, Springfield, Mass. | East Hartford: Eastern States Farmers' Exchange | 0.82 | 21.27 | 20.45 | 20.00 |

¹State purchase.

TABLE 3. ANALYSES OF SUPERPHOSPHATE, ETC.—(Concluded)

| Station No. | Manufacturer or Wholesale Dealer | Dealer or Purchaser | Phosphoric acid | | | |
|--------------------------|---|--|-------------------|--------------------|-------|------------|
| | | | Citrate-insoluble | Total | Found | Guaranteed |
| | | | % | % | % | % |
| 526 | Eastern States 47% Triple. Eastern States Farmers' Exchange, Springfield, Mass. ... | South Windsor: I. Stone | 0.44 | 47.40 | 46.96 | 47.00 |
| 363 | 16% Olds & Whipple, Inc., Hartford, Conn. ... | Manchester: C. R. Burr & Co. | 0.21 | 16.92 | 16.71 | 16.00 |
| 517 | O & W 20%. Olds & Whipple, Inc., Hartford, Conn. | East Hartford: Olds & Whipple, Inc. | 1.01 | 21.38 | 20.37 | 20.00 |
| 758 | Hubbard's 16%. The Rogers & Hubbard Co., Portland, Conn. | Portland: The Rogers & Hubbard Co. ... | 0.41 | 17.10 | 16.69 | 16.00 |
| 401 | Hubbard's 20%. The Rogers & Hubbard Co., Portland, Conn. | Portland: The Rogers & Hubbard Co. ... | 0.20 | 20.62 | 20.42 | 20.00 |
| 696 ¹ | Standard 20%. Standard Wholesale Phosphate & Acid Works, Baltimore, Md. | Niantic: State Farm for Women | 0.37 | 20.99 | 20.62 | 20.00 |
| 252 ¹ | Summers "Best on Earth" 20%. Summers Fertilizer Co., Inc., Baltimore, Md. | Cheshire: Connecticut Reformatory | 0.48 | 21.69 | 21.21 | 20.00 |
| 534 ¹ | Summers "Best on Earth" 20%. Summers Fertilizer Co., Inc., Baltimore, Md. | Newtown: Fairfield State Hospital | 0.07 | 20.88 | 20.81 | 20.00 |
| 682 | Woodruff's 20%. The Woodruff Fertilizer Works, Inc., Orange, Conn. | North Haven: J. P. Beach | 0.70 | 20.11 | 19.41 | 20.00 |
| Precipitated Bone | | | | | | |
| 425 | Apothecaries Hall Co., Waterbury, Conn. | East Windsor: Apothecaries Hall Co. | 1.31 | 40.32 | 39.01 | 38.00 |
| 735 | O & W. Olds & Whipple, Inc., Hartford, Conn. | East Hartford: John M. Herr | 5.57 | 40.80 | 35.23 | 38.00 |
| Natural Phosphate | | | | | | |
| 697 ¹ | Min-Coll. Soil Builders, Inc., Duncannon, Fla. | Niantic: State Farm for Women | ... | 22.40 ² | .... | .... |

¹State purchase.²Guaranteed 22% total phosphoric acid.

TABLE 4. ANALYSES OF POTASH SALTS, ETC.

| Station No. | Manufacturer and Brand | Sampled from stock of | Potash | |
|------------------|---|---|--------|------------|
| | | | Found | Guaranteed |
| | Muriate of Potash | | % | % |
| 448 | American Agricultural Chemical Co., No. Weymouth, Mass. | West Haven: American Agricultural Chemical Co. | 50.06 | 50.00 |
| 256 ¹ | Consolidated Rendering Co., Boston, Mass. | Cheshire: Connecticut Reformatory | 60.54 | 50.00 |
| 532 ¹ | Consolidated Rendering Co., Boston, Mass. | Newtown: Fairfield State Hospital | 58.74 | 50.00 |
| 788 ¹ | Consolidated Rendering Co., Boston, Mass. | Mansfield Depot: Mansfield State Training School | 59.78 | 50.00 |
| 815 | Eastern States. Eastern States Farmers' Exchange, Springfield, Mass. | East Hartford: Eastern States Farmers' Exchange | 60.62 | 60.00 |
| | Sulphate of Potash | | | |
| 427 | Apothecaries Hall Co., Waterbury, Conn. | East Windsor: Apothecaries Hall Co. | 52.15 | 48.00 |
| 524 | Eastern States. Eastern States Farmers' Exchange, Springfield, Mass. | So. Windsor: I. Stone | 52.08 | 52.00 |
| 737 | High Grade. Olds & Whipple, Inc., Hartford, Conn... | East Hartford: John M. Herr | 49.84 | 48.00 |
| | Cottonhull Ashes² | | | |
| 392 | Kireal. Ted Alkire, Lubbock, Texas | East Hartford: Eastern States Farmers' Exchange | 42.16 | 33.00 |
| 738 | Kireal. Ted Alkire, Lubbock, Texas | East Hartford: John M. Herr | 43.12 | 33.00 |
| 520 | O & W. Olds & Whipple, Inc., Hartford, Conn. | So. Windsor: I. Stone | 33.43 | 30.00 |

¹State purchase.²Old Deerfield Fertilizer Co., unofficial samples, see p. 51.

TABLE 5. ANALYSES OF DRY GROUND FISH, ETC.

| Station No. | Manufacturer and Wholesale Dealer | Sampled from stock of | Nitrogen | | Phosphoric acid | |
|-------------|---|---|-------------|------------------|-----------------|------------------|
| | | | Total found | Total guaranteed | Total found | Total guaranteed |
| 426 | Apothecaries Hall Co., Waterbury, Conn... | East Windsor: Apothecaries Hall Co. ... | % | % | % | % |
| 523 | Eastern States. Eastern States Farmers' Exchange, Springfield, Mass. | South Windsor: I. Stone | 9.26 | 9.00 | 6.71 | 5.00 |
| 519 | O & W. Olds & Whipple, Inc., Hartford, Conn. | East Hartford: Olds & Whipple, Inc. ... | 9.93 | 9.00 | 6.34 | 5.00 |
| 843 | Hubbard's. The Rogers & Hubbard Co., Portland, Conn. | Portland: The Rogers & Hubbard Co. .. | 9.50 | 9.00 | 7.66 | 5.00 |
| | | | 10.04 | 9.46 | 7.06 | 5.00 |

TABLE 6. ANALYSES OF TANKAGE AND SIMILAR MATERIALS

| Station No. | Manufacturer and Wholesale Dealer | Sampled from stock of | Nitrogen | | Phosphoric acid | | Mechanical analysis | |
|-------------|--|--|-------------|------------------|-------------------|------------------|----------------------|------------------------|
| | | | Total found | Total guaranteed | Total found | Total guaranteed | Finer than 1-50 inch | Coarser than 1-50 inch |
| 364 | Apothecaries Hall Co., Waterbury, Conn... | Manchester: C. R. Burr & Co. New Haven: L. T. Frisbie Co. Saugatuck: L. H. Gault & Son | % | % | % | % | % | % |
| 837 | Ground. Consolidated Rendering Co., Boston, Mass. | | 8.02 | 8.22 | 10.45 | 3.00 | 41.8 | 58.2 |
| 922 | Milorganite. Sewerage Commission, Milwaukee, Wis. | | 8.16 | 7.40 | 10.02 | 9.15 | 53.0 | 47.0 |
| | | | 5.98 | 6.00 | 3.29 ¹ | .... | ... | ... |

¹"Available" found 2.62%; guaranteed 2.00%.

TABLE 7. ANALYSES OF GROUND BONE

| Station No. | Manufacturer and Brand | Sampled from stock of | Nitrogen | | Phosphoric acid | | Mechanical analysis | |
|-------------|---|---|-------------|------------------|-----------------|------------------|----------------------|------------------------|
| | | | Total found | Total guaranteed | Total found | Total guaranteed | Finer than 1-50 inch | Coarser than 1-50 inch |
| | | | % | % | % | % | % | % |
| 537 | Fine Ground. American Agricultural Chemical Co., No. Weymouth, Mass. | Danbury: Barnum Feed Store | 2.62 | 2.47 | 27.50 | 23.00 | 52.7 | 47.3 |
| 679 | Apothecaries Hall Co., Waterbury, Conn.... | New Britain: Stanley Svea Coal Co. | 2.84 | 2.25 | 24.24 | 22.00 | 49.6 | 50.4 |
| 685 | Apothecaries Hall Co., Waterbury, Conn.... | New London: New London Grain Co. | 3.71 | 3.70 | 22.11 | 20.00 | 28.7 | 71.3 |
| 806 | Armour's, Armour Fertilizer Works, New York, N. Y. | East Windsor Hill: David J. Ahern | 2.59 | 2.47 | 28.64 | 23.00 | 64.5 | 35.5 |
| 824 | Baugh's Pure Steamed. The Baugh & Sons Co., Baltimore, Md. | Hamden: Hamden Lehigh Coal Co. | 3.03 | 2.47 | 24.93 | 23.00 | 48.0 | 52.0 |
| 822 | Baugh's Raw, Warranted Pure. The Baugh & Sons Co., Baltimore, Md. | Hamden: Hamden Lehigh Coal Co. | 4.00 | 3.70 | 21.80 | 20.50 | 37.7 | 62.3 |
| 486 | Berkshire Fine Ground. Berkshire Chemical Co., Bridgeport, Conn. | Bridgeport: Berkshire Chemical Co. | 2.18 | 2.05 | 29.20 | 25.00 | 63.6 | 36.4 |
| 391 | Corenco Ground. Consolidated Rendering Co., Boston, Mass. | Danielson: Dayville Grain & Feed Co. | 2.48 | 2.47 | 23.31 | 23.00 | 63.3 | 36.7 |
| 836 | Corenco Raw. Consolidated Rendering Co., Boston, Mass. | New Haven: L. T. Frisbie Co. | 3.96 | 3.70 | 22.78 | 20.00 | 29.5 | 70.5 |

| | | | | | | | | |
|------------------|--|---|-------------------|------|-------|-------|------|------|
| 399 | Eastern States Ground Steamed. Eastern States Farmers' Exchange, Springfield, Mass. | East Hartford: Eastern States Farmers' Exchange | 2.62 | 2.30 | 29.71 | 23.00 | 68.7 | 31.3 |
| 674 | G & O Ground. Goulard & Olena, Inc., New York, N. Y. | New Britain: Rackliffe Bros., Inc. | 2.48 | 2.40 | 26.54 | 22.75 | 53.6 | 46.4 |
| 513 | O & W Olds & Whipple, Inc., Hartford, Conn. | East Hartford: Olds & Whipple, Inc. | 3.32 | 2.47 | 25.77 | 22.00 | 51.3 | 48.7 |
| 672 | Hubbard's Fine Ground. The Rogers & Hubbard Co., Portland, Conn. | New Britain: C. W. Lines Co. | 2.48 | 2.47 | 28.64 | 23.00 | 66.6 | 33.4 |
| 831 | Hubbard's Raw Knuckle Bone Flour. The Rogers & Hubbard Co., Portland, Conn. | Meriden: Church & Morse | 4.12 | 3.70 | 25.20 | 24.70 | 79.0 | 21.0 |
| 258 ¹ | Steamed. Standard Wholesale Phosphate & Acid Works, Inc., Baltimore, Md. | Cheshire: Conn. Reformatory .. | 2.83 ² | 2.47 | 20.57 | 23.00 | 53.5 | 46.5 |
| 880 | Sawco. Stumpp & Walter Co., New York, N. Y. | Stamford: Stumpp & Walter Co. | 2.80 | 2.47 | 26.10 | 24.00 | 57.5 | 42.5 |
| 694 | Swift & Co. Fertilizer Works, Baltimore, Md. | New London: Aben Hardware Co. | 2.94 | 2.47 | 25.90 | 23.00 | 58.5 | 41.5 |

¹State purchase.²Nitrogen in ammonia 0.7%.

TABLE 8. ANALYSES OF MIXED FERTILIZER

| Station No. | Manufacturer and Brand | Place of sampling |
|--|---|-----------------------|
| The Acme Guano Co., Baltimore, Md. | | |
| 543 | Acme 3-10-4 | Suffield |
| 544 | Acme 3-12-6 | Suffield |
| 542 | Acme 4-8-4 | Suffield |
| 980 | Acme 4-8-4 | Bloomfield |
| 981 | Acme Vitaflor 4-8-5 | Bloomfield |
| 1232 | Acme Vitaflor 4-8-5 | Bloomfield |
| 1233 | Acme Vitaflor 4-8-5 | Bloomfield |
| 546 | Acme 4-8-10 | Middletown |
| 541 | Acme 5-8-7 | Suffield |
| 966 | Acme Plant Food 7-7-7 | Bloomfield |
| American Agricultural Chemical Co., North Weymouth, Mass. | | |
| 786 ¹ | AA 8-16-8 Fertilizer | Mansfield Depot |
| 331 | AA Market Garden Fertilizer 4-8-4 | West Haven |
| 457 | AA Potato and Root Crop Fertilizer 4-8-10 .. | West Haven |
| 378 ¹ | AA Potato and Vegetable Fertilizer 5-8-7 | Portland |
| 460 | Agrico for Aroostook with 10% Potash 5-8-10 | West Haven |
| 461 | Agrico for Corn 3-10-6 | West Haven |
| 695 ¹ | Agrico for Corn 3-10-6 | Niantic |
| 451 | Agrico for Corn 4-12-6 | West Haven |
| 454 | Agrico Country Club 8-6-2 | West Haven |
| 453 | Agrico Country Club Fertilizer 8-6-4 | West Haven |
| 459 | Agrico for Fruit 8-8-4 | West Haven |
| 771 | Agrico for Gardens 4-10-4 | Greenwich |
| 770 | Agrico for Lawns, Trees and Shrubs 7-7-5 ... | Greenwich |
| 462 | Agrico for New England 4-8-10 | West Haven |
| 330 | Agrico for Potatoes and Vegetables 5-8-7 | West Haven |
| 877 | Agrico for Seeding Down 4-16-20 | West Haven |
| 876 | Agrico for Tobacco 6-3-6 | West Haven |
| 450 | Agrico for Top Dressing 7-7-7 | West Haven |
| 458 | Agrico for Truck 5-10-5 | West Haven |
| 455 | Bradley's XL Fertilizer 3-10-4 | West Haven |
| Apothecaries Hall Co., Waterbury, Conn. | | |
| 412 | Liberty Corn Fertilizer 3-12-6 | East Windsor |
| 420 | Liberty Green Gro 6-5-3 | East Windsor |
| 792 | Liberty High Analysis Fertilizer 8-16-16 | East Windsor |
| 418 | Liberty High Grade Corn Fertilizer 4-12-4 ... | East Windsor |
| 416 | Liberty High Grade Market Gardener's 5-8-7 | East Windsor |
| 854 | Liberty High Grade Tobacco Manure 7-3-7 .. | East Windsor |
| 790 | Liberty High Grade Vegetable 5-10-10 | East Windsor |
| 791 | Liberty Manure Supplement 0-20-10 | East Windsor |
| 413 | Liberty Market Gardener's Special 4-8-4 | East Windsor |
| 415 | Liberty Potato and General Crops 4-8-10 | East Windsor |

¹State purchase.

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH

| Nitrogen | | | | | Phosphoric acid | | | Potash | | Station No. |
|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|
| In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So-called (available) | As muriate | Total | |
| % | % | % | % | % | % | % | % | % | % | |
| 0.00 | 1.98 | 0.67 | 0.53 | 3.18 | 0.94 | 10.59 | 9.65 | 2.83 | 4.40 | 543 |
| 0.00 | 2.40 | 0.43 | 0.40 | 3.23 | 0.97 | 12.91 | 11.94 | 4.29 | 6.78 | 544 |
| 0.00 | 2.34 | 0.95 | 0.38 | 3.67 | 0.71 | 8.05 | 7.34 | 2.90 | 4.45 | 542 |
| 0.00 | 3.06 | 0.69 | 0.16 | 3.91 | 0.41 | 8.85 | 8.44 | 3.46 | 4.57 | 980 |
| 0.24 | 1.88 | 0.32 | 2.43 | 4.87 | 1.40 | 15.69 | 14.29 | 5.96 | 5.96 | 981 |
| 0.00 | 0.92 | 0.92 | 2.74 | 4.58 | 1.25 | 11.00 | 9.75 | 5.09 | 7.82 | 1232 |
| 0.00 | 1.72 | 0.41 | 2.50 | 4.63 | 1.65 | 15.50 | 13.85 | 5.09 | 5.86 | 1233 |
| 0.14 | 2.82 | 0.42 | 0.48 | 3.86 | 0.40 | 8.94 | 8.54 | 6.65 | 9.36 | 546 |
| 0.88 | 2.80 | 1.20 | 0.79 | 5.67 | 0.55 | 8.21 | 7.66 | 4.98 | 7.28 | 541 |
| 2.04 | 3.10 | 0.58 | 0.89 | 6.61 | 0.30 | 7.86 | 7.56 | 4.81 | 7.22 | 966 |
| | | | | | | | | | | |
| 0.88 | 5.20 | 0.80 | 0.59 | 7.47 | 0.74 | 18.02 | 17.28 | 8.00 | 8.00 | 786 |
| 0.59 | 2.64 | 0.22 | 0.47 | 3.92 | 0.80 | 8.22 | 7.42 | 4.61 | 4.61 | 331 |
| 0.43 | 2.94 | 0.22 | 0.41 | 4.00 | 0.57 | 9.00 | 8.43 | 10.06 | 10.06 | 457 |
| 0.56 | 4.00 | 0.42 | 0.48 | 5.46 | 0.52 | 8.75 | 8.23 | 8.49 | 8.49 | 378 |
| 0.58 | 3.88 | 0.14 | 0.41 | 5.01 | 0.64 | 8.81 | 8.17 | 9.93 | 9.93 | 460 |
| 0.00 | 2.52 | 0.24 | 0.40 | 3.16 | 0.81 | 11.45 | 10.64 | 5.94 | 5.94 | 461 |
| 0.65 | 1.96 | 0.08 | 0.27 | 2.96 | 1.04 | 11.16 | 10.12 | 5.79 | 5.79 | 695 |
| 0.55 | 2.82 | 0.32 | 0.40 | 4.09 | 1.16 | 13.52 | 12.36 | 6.14 | 6.14 | 451 |
| 0.82 | 3.06 | 1.10 | 2.93 | 7.91 | 0.65 | 7.32 | 6.67 | 2.20 | 2.20 | 454 |
| 0.52 | 6.66 | 0.22 | 0.60 | 8.00 | 0.61 | 6.84 | 6.23 | 3.70 | 3.70 | 453 |
| 0.47 | 6.76 | 0.36 | 0.50 | 8.09 | 0.54 | 9.55 | 9.01 | 4.35 | 4.35 | 459 |
| 0.00 | 3.00 | 0.21 | 1.16 | 4.37 | 0.95 | 11.60 | 10.65 | 4.22 | 4.22 | 771 |
| 0.82 | 4.56 | 0.44 | 1.46 | 7.28 | 0.69 | 7.90 | 7.21 | 5.16 | 5.16 | 770 |
| 0.25 | 3.00 | 0.44 | 0.43 | 4.12 | 0.84 | 9.58 | 8.74 | 10.09 | 10.09 | 462 |
| 0.44 | 4.00 | 0.38 | 0.36 | 5.18 | 0.82 | 9.43 | 8.61 | 7.33 | 7.33 | 330 |
| 0.93 | 3.32 | 0.18 | 0.15 | 4.58 | 0.73 | 19.49 | 18.76 | 17.41 | 17.41 | 877 |
| 1.23 | 0.14 | 0.94 | 3.76 | 6.07 | 0.23 | 4.07 | 3.84 | 0.27 | 6.04 | 876 |
| 0.56 | 5.76 | 0.06 | 0.41 | 6.79 | 0.63 | 7.70 | 7.07 | 7.08 | 7.08 | 450 |
| 0.70 | 4.00 | 0.00 | 0.28 | 4.98 | 0.78 | 11.17 | 10.39 | 5.43 | 5.43 | 458 |
| 0.28 | 2.06 | 0.30 | 0.33 | 2.97 | 0.86 | 10.86 | 10.00 | 4.48 | 4.48 | 455 |
| | | | | | | | | | | |
| 0.47 | 1.96 | 0.54 | 0.57 | 3.54 | 0.64 | 13.20 | 12.56 | 7.02 | 7.02 | 412 |
| 0.82 | 1.72 | 1.28 | 2.96 | 6.78 | 0.24 | 6.71 | 6.47 | 4.15 | 4.90 | 420 |
| 0.40 | 0.44 | 6.64 | 0.55 | 8.03 | 0.26 | 19.20 | 18.94 | 13.04 | 13.04 | 792 |
| 1.90 | 1.82 | 0.44 | 0.56 | 4.72 | 0.66 | 12.79 | 12.13 | 5.00 | 5.00 | 418 |
| 0.69 | 3.48 | 0.14 | 0.93 | 5.24 | 0.36 | 8.94 | 8.58 | 7.46 | 7.46 | 416 |
| 1.29 | 0.66 | 1.72 | 3.62 | 7.29 | 0.35 | 5.00 | 4.65 | 0.43 | 8.02 | 854 |
| 1.23 | 3.22 | 0.12 | 0.75 | 5.32 | 0.41 | 11.23 | 10.82 | 8.01 | 9.95 | 790 |
| .... | .... | .... | .... | .... | 0.38 | 18.94 | 18.56 | 11.49 | 11.49 | 791 |
| 0.49 | 3.00 | 0.34 | 0.52 | 4.35 | 0.26 | 8.59 | 8.33 | 4.01 | 4.01 | 413 |
| 0.99 | 2.56 | 0.16 | 0.75 | 4.46 | 0.31 | 9.20 | 8.89 | 10.44 | 10.44 | 415 |

TABLE 8. ANALYSES OF MIXED FERTILIZER

| Station No. | Manufacturer and Brand | Place of sampling |
|--|--|-------------------------|
| 365 | Liberty Special Fertilizer for Fruit and Grass 7-7-7 | Manchester |
| 789 | Liberty Special Fertilizer for Lawns 4-4-0 ... | East Windsor |
| 856 | Liberty Tobacco Mixture 5-3-5 | East Windsor |
| 855 | Liberty Tobacco Mixture 6-3-6 | East Windsor |
| 857 | Liberty Tobacco Mixture 6-3-7 | East Windsor |
| 417 | Liberty Top Dresser for Grass and Grain 8-8-8 | East Windsor |
| 421 | Liberty Tree and Shrub Food 10-8-8 | East Windsor |
| 853 | Liberty Truck Garden and Onion Fertilizer 5-10-5 | East Windsor |
| Armour Fertilizer Works, New York, N. Y. | | |
| 812 | Armour's Big Crop Fertilizer 3-12-6 | East Windsor Hill |
| 796 | Armour's Big Crop Fertilizer 4-8-4 | East Windsor Hill |
| 794 | Armour's Big Crop Fertilizer 4-8-10 | East Windsor Hill |
| 793 | Armour's Big Crop Fertilizer 5-8-7 | East Windsor Hill |
| 811 | Armour's Big Crop Fertilizer 5-10-5 | East Windsor Hill |
| 808 | Armour's Big Crop Fertilizer 5-10-10 | East Windsor Hill |
| 795 | Armour's Big Crop Fertilizer 7-7-7 | East Windsor Hill |
| 810 | Armour's Big Crop Fertilizer 8-16-20 | East Windsor Hill |
| 859 | Armour's Big Crop Tobacco Special 6-3-6 | East Windsor Hill |
| 809 | Armour's Fertilizer 8-16-16 | East Windsor Hill |
| 858 | Armour's Special Putting Green Mixture 8-5-2 | East Windsor Hill |
| Associated Seed Growers, Inc., New Haven, Conn. | | |
| 340 | Clark's Tip-Top Fertilizer 5-8-7 | Orange |
| F. A. Bartlett Tree Expert Co., Stamford, Conn. | | |
| 782 | Bartlett Green Tree Food 6-7-4 | Stamford |
| The Baugh & Sons Co., Baltimore, Md. | | |
| 826 | Baugh's Fish Bone and Potash Mixture 4-8-4 | Hamden |
| 465 | Baugh's Old Dependable Potato Grower 4-8-10 | Hamden |
| 894 | Baugh's Old Dependable Potato Grower 4-8-10 | Hamden |
| 823 | Baugh's Perfection Brand 3-10-6 | Hamden |
| 825 | Baugh's Peruvian Guano Substitute 5-8-7 | Hamden |
| 827 | Baugh's Premium Plant Food and Soil Builder 5-10-5 | Hamden |
| 464 | Baugh's Special Top Dresser 7-6-6 | Hamden |
| 466 | Baugh's Truckers Favorite 5-10-5 | Hamden |

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH

| Nitrogen | | | | | Phosphoric acid | | | Potash | | Station No. |
|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|
| In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So-called (available) | As muriate | Total | |
| % | % | % | % | % | % | % | % | % | % | |
| 0.33 | 5.52 | 0.54 | 0.75 | 7.14 | 0.24 | 7.67 | 7.43 | 6.88 | 7.44 | 365 |
| 0.00 | 0.04 | 0.51 | 4.59 | 5.14 | 1.74 | 8.39 | 6.65 | .... | .... | 789 |
| 1.61 | 0.08 | 0.50 | 3.21 | 5.40 | 0.18 | 5.02 | 4.84 | 0.29 | 6.52 | 856 |
| 0.40 | 0.78 | 1.22 | 3.88 | 6.28 | 0.31 | 4.75 | 4.44 | 0.32 | 7.11 | 855 |
| 0.69 | 0.12 | 1.88 | 3.60 | 6.29 | 0.38 | 4.51 | 4.13 | 0.39 | 8.27 | 857 |
| 0.77 | 6.14 | 0.28 | 0.84 | 8.03 | 0.28 | 8.86 | 8.58 | 8.31 | 8.31 | 417 |
| 0.41 | 7.88 | 0.46 | 1.06 | 9.81 | 0.24 | 8.81 | 8.57 | 9.48 | 9.48 | 421 |
| 1.10 | 3.20 | 0.24 | 0.70 | 5.24 | 0.41 | 11.36 | 10.95 | 5.50 | 5.50 | 853 |
| 0.39 | 2.00 | 0.20 | 0.49 | 3.08 | 0.81 | 13.19 | 12.38 | 6.27 | 6.27 | 812 |
| 0.50 | 2.96 | 0.06 | 0.54 | 4.06 | 0.35 | 8.41 | 8.06 | 4.23 | 4.23 | 796 |
| 0.53 | 2.00 | 0.88 | 0.68 | 4.09 | 0.57 | 8.58 | 8.01 | 9.86 | 9.86 | 794 |
| 0.43 | 3.44 | 0.50 | 0.66 | 5.03 | 0.58 | 8.84 | 8.26 | 7.05 | 7.05 | 793 |
| 0.45 | 4.00 | 0.14 | 0.62 | 5.21 | 0.95 | 11.50 | 10.55 | 5.49 | 5.49 | 811 |
| 0.58 | 3.42 | 0.40 | 0.72 | 5.12 | 0.71 | 10.77 | 10.06 | 10.13 | 10.13 | 808 |
| 0.71 | 5.30 | 0.18 | 0.77 | 6.96 | 0.30 | 8.06 | 7.70 | 7.05 | 7.05 | 795 |
| 0.62 | 6.82 | 0.20 | 0.14 | 7.78 | 0.28 | 16.79 | 16.51 | 19.02 | 19.02 | 810 |
| 1.26 | 0.26 | 1.44 | 3.29 | 6.25 | 0.26 | 4.42 | 4.16 | 0.47 | 6.44 | 859 |
| 0.89 | 6.48 | 0.04 | 0.18 | 7.59 | 0.37 | 16.49 | 16.12 | 15.36 | 15.36 | 809 |
| 0.77 | 4.70 | 0.36 | 2.42 | 8.25 | 0.74 | 6.23 | 5.49 | 2.98 | 2.98 | 858 |
| 0.46 | 2.54 | 0.76 | 1.09 | 4.85 | 0.47 | 8.58 | 8.11 | 7.50 | 7.50 | 340 |
| 0.00 | 5.58 | 0.31 | 0.84 | 6.73 | 1.29 | 10.15 | 8.86 | 5.19 | 5.19 | 782 |
| 0.30 | 2.86 | 0.66 | 0.24 | 4.06 | 0.60 | 8.76 | 8.16 | 5.82 | 5.82 | 826 |
| 0.00 | 2.86 | 1.06 | 0.29 | 4.21 | 0.64 | 8.92 | 8.28 | 9.65 | 9.65 | 465 |
| 0.00 | 2.84 | 0.96 | 0.20 | 4.00 | 0.66 | 8.89 | 8.23 | 9.62 | 9.62 | 894 |
| 0.00 | 2.20 | 0.76 | 0.23 | 3.19 | 0.91 | 10.94 | 10.03 | 6.57 | 6.57 | 823 |
| 0.46 | 3.46 | 0.72 | 0.30 | 4.94 | 0.75 | 9.21 | 8.46 | 7.00 | 7.00 | 825 |
| 0.21 | 3.62 | 0.94 | 0.27 | 5.04 | 0.76 | 10.91 | 10.15 | 5.41 | 5.41 | 827 |
| 3.54 | 2.92 | 0.64 | 0.21 | 7.31 | 0.52 | 6.97 | 6.45 | 6.33 | 6.33 | 464 |
| 0.00 | 3.78 | 0.56 | 0.39 | 4.73 | 0.67 | 10.72 | 10.05 | 5.29 | 5.29 | 466 |

TABLE 8. ANALYSES OF MIXED FERTILIZER

| Station No. | Manufacturer and Brand | Place of sampling |
|--|--|-------------------|
| Berkshire Chemical Co., Bridgeport, Conn. | | |
| 336 | Berkshire Fertilizer 4-8-4 | Milford |
| 334 | Berkshire Fertilizer 4-8-7 | Milford |
| 734 ¹ | Berkshire Fertilizer 4-8-10 | Cheshire |
| 765 ¹ | Berkshire Fertilizer 4-8-10 | Middletown |
| 335 | Berkshire Fertilizer 5-8-7 | Milford |
| 536 ¹ | Berkshire Fertilizer 5-8-7 | Newtown |
| 733 ¹ | Berkshire Fertilizer 5-8-7 | Cheshire |
| 255 ¹ | Berkshire Fertilizer 5-8-10 | Cheshire |
| 852 | Berkshire Fertilizer 5-8-10 | Simsbury |
| 480 | Berkshire Fertilizer 5-10-5 | Bridgeport |
| 530 ¹ | Berkshire Fertilizer 5-10-5 | Newtown |
| 898 | Berkshire Fertilizer 5-10-10 | Bridgeport |
| 899 | Berkshire Fertilizer Tobacco 6-3-6 | Bridgeport |
| 254 ¹ | Berkshire Fertilizer 7-6-6 | Cheshire |
| 763 ¹ | Berkshire Fertilizer 7-6-6 | Middletown |
| 482 | Berkshire Fertilizer 7-7-7 | Bridgeport |
| 531 ¹ | Berkshire Fertilizer 10-6-4 | Newtown |
| 484 | Berkshire Golf Green Fertilizer 8-5-2 | Bridgeport |
| 483 | Berkshire Grass Special 6-6-5 | Bridgeport |
| Connecticut Toro Co., Hartford, Conn. | | |
| 910 | Netco Greens Formula 8-6-2 | Manchester |
| Consolidated Rendering Co., Boston, Mass. | | |
| 326 | Corenco 3-10-4 Animal Brand | New Haven |
| 1037 | Corenco 3-10-4 Animal Brand | New Haven |
| 325 | Corenco 4-8-4 Corn and Vegetable | New Haven |
| 324 | Corenco 4-8-7 Market Garden | New Haven |
| 329 | Corenco 4-8-10 Potato Grower | New Haven |
| 838 | Corenco 5-5-5 Lawn and Shrub | New Haven |
| 376 | Corenco 5-8-7 General Crop Manure | Pranford |
| 839 | Corenco 5-8-10 Peerless Potato | New Haven |
| 684 ¹ | Corenco 5-10-5 Super Truck | Niantic |
| 328 | Corenco 6-3-6 Special Tobacco Grower | New Haven |
| 802 | Corenco 7-6-6 Complete Fruit and Top Dress- ing | New Haven |
| 1116 | Corenco 7-6-6 Complete Fruit and Top Dress- ing | New Haven |
| 390 | Corenco 7-7-7 Complete Fruit and Top Dress- ing | Danielson |
| 1117 | Corenco 7-7-7 Complete Fruit and Top Dress- ing | New Haven |

¹State purchase.

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH

| Nitrogen | | | | | Phosphoric acid | | | Potash | | Station No. |
|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|
| In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So-called (available) | As muriate | Total | |
| % | % | % | % | % | % | % | % | % | % | |
| 0.00 | 2.84 | 1.08 | 0.30 | 4.22 | 0.36 | 8.94 | 8.58 | 3.91 | 5.05 | 336 |
| 0.00 | 2.80 | 0.97 | 0.24 | 4.01 | 0.50 | 8.56 | 8.06 | 7.25 | 7.25 | 334 |
| 0.00 | 2.86 | 1.09 | 0.28 | 4.23 | 0.49 | 8.76 | 8.27 | 9.75 | 9.75 | 734 |
| 0.00 | 2.86 | 1.02 | 0.21 | 4.09 | 0.37 | 8.37 | 8.00 | 10.31 | 10.31 | 765 |
| 0.00 | 3.82 | 0.99 | 0.19 | 5.00 | 0.21 | 8.16 | 7.95 | 7.45 | 7.45 | 335 |
| 0.00 | 3.66 | 1.16 | 0.14 | 4.96 | 0.30 | 8.37 | 8.07 | 7.40 | 7.40 | 536 |
| 0.13 | 3.74 | 1.06 | 0.20 | 5.13 | 0.20 | 7.90 | 7.70 | 7.50 | 7.50 | 733 |
| 0.00 | 4.00 | 1.03 | 0.24 | 5.27 | 0.49 | 8.78 | 8.29 | 10.03 | 10.03 | 255 |
| 0.00 | 3.56 | 1.22 | 0.28 | 5.06 | 0.84 | 9.83 | 8.99 | 2.28 | 10.17 | 852 |
| 0.00 | 3.96 | 0.97 | 0.37 | 5.30 | 0.70 | 10.84 | 10.14 | 5.15 | 5.15 | 480 |
| 0.00 | 4.00 | 0.85 | 0.31 | 5.16 | 0.65 | 10.56 | 9.91 | 5.36 | 5.36 | 530 |
| 0.00 | 3.60 | 1.01 | 0.29 | 4.90 | 0.24 | 11.06 | 10.82 | 9.01 | 9.90 | 898 |
| 0.64 | 0.30 | 1.64 | 3.21 | 5.79 | 0.22 | 3.78 | 3.56 | 0.68 | 6.59 | 899 |
| 0.00 | 5.88 | 1.14 | 0.16 | 7.18 | 0.08 | 6.80 | 6.72 | 6.62 | 6.62 | 254 |
| 0.00 | 5.76 | 1.21 | 0.20 | 7.17 | 0.29 | 8.12 | 7.83 | 7.46 | 7.46 | 763 |
| 0.00 | 5.70 | 1.27 | 0.27 | 7.24 | 0.21 | 7.86 | 7.65 | 7.05 | 7.05 | 482 |
| 0.00 | 7.58 | 2.43 | 0.17 | 10.18 | 0.19 | 6.30 | 6.11 | 4.19 | 4.19 | 531 |
| 0.00 | 2.06 | 2.78 | 4.11 | 8.95 | 0.62 | 6.37 | 5.75 | 2.13 | 2.13 | 484 |
| 0.00 | 4.66 | 1.04 | 0.21 | 5.91 | 0.37 | 7.00 | 6.63 | 5.46 | 5.46 | 483 |
| 0.18 | 4.58 | 0.52 | 2.32 | 7.60 | 0.51 | 7.58 | 7.07 | 2.17 | 2.17 | 910 |
| 0.84 | 1.40 | 0.60 | 0.08 | 2.92 | 0.45 | 9.91 | 9.46 | 4.40 | 4.40 | 326 |
| 0.81 | 1.52 | 0.76 | 0.06 | 3.15 | 0.50 | 10.58 | 10.08 | 4.44 | 4.44 | 1037 |
| 0.95 | 2.54 | 0.52 | 0.07 | 4.08 | 0.21 | 8.55 | 8.34 | 4.05 | 4.05 | 325 |
| 0.91 | 2.44 | 0.50 | 0.10 | 3.95 | 0.60 | 8.24 | 7.64 | 7.02 | 7.02 | 324 |
| 0.97 | 2.52 | 0.48 | 0.06 | 4.03 | 0.36 | 8.21 | 7.85 | 10.31 | 10.31 | 329 |
| 0.86 | 1.60 | 0.42 | 2.10 | 4.98 | 0.35 | 6.54 | 6.19 | 5.36 | 5.36 | 838 |
| 0.76 | 3.64 | 0.56 | 0.09 | 5.05 | 0.40 | 8.42 | 8.02 | 7.10 | 7.10 | 376 |
| 1.04 | 2.58 | 1.08 | 0.22 | 4.92 | 0.31 | 8.91 | 8.60 | 10.21 | 10.21 | 839 |
| 1.04 | 3.58 | 0.52 | 0.10 | 5.24 | 0.36 | 10.76 | 10.40 | 5.17 | 5.17 | 684 |
| 0.80 | 0.14 | 2.20 | 3.12 | 6.26 | 0.42 | 4.81 | 4.39 | 0.71 | 6.71 | 328 |
| 1.10 | 3.68 | 1.88 | 0.07 | 6.73 | 0.21 | 6.77 | 6.56 | 6.18 | 6.18 | 802 |
| 1.16 | 4.92 | 0.94 | 0.08 | 7.10 | 0.11 | 6.60 | 6.49 | 4.92 | 6.27 | 1116 |
| 0.96 | 5.20 | 0.40 | 0.07 | 6.63 | 0.42 | 7.71 | 7.29 | 7.40 | 7.40 | 390 |
| 0.90 | 5.14 | 0.86 | 0.12 | 7.02 | 0.08 | 7.55 | 7.47 | 7.03 | 7.03 | 1117 |

TABLE 8. ANALYSES OF MIXED FERTILIZER

| Station No. | Manufacturer and Brand | Place of sampling |
|-------------|--|---------------------|
| | The Davey Tree Expert Co., Kent, Ohio | |
| 886 | Davey Tree Food 12-4-4 | Old Greenwich |
| | Eastern States Farmers' Exchange, Springfield, Mass. | |
| 925 | Eastern States 0-20-20 | Bethel |
| 522 | Eastern States 4-16-20 | East Hartford |
| 395 | Eastern States 5-10-10 | East Hartford |
| 396 | Eastern States 5-15-5 | East Hartford |
| 397 | Eastern States 7-7-7 | East Hartford |
| 803 | Eastern States 8-4-8 Tobacco | South Windsor |
| 924 | Eastern States 8-16-8 | Bethel |
| 398 | Eastern States 8-16-16 | East Hartford |
| 393 | Eastern States 8-24-8 | East Hartford |
| 926 | Eastern States 10-5-5 | Bethel |
| 394 | Eastern States 10-10-10 | East Hartford |
| | Thomas W. Emerson Co., Boston, Mass. | |
| 1143 | Emseco All Use Fertilizer 7-7-7 | Branford |
| | General Chemical Co., Mechling Products Division, Camden, N. J. | |
| 768 | Veget-Aid 5-10-4 | Greenwich |
| | Goulard & Olena, Inc., New York, N. Y. | |
| 676 | G & O Lawn, Garden and Flower 5-8-5 | New Britain |
| 1118 | G & O Lawn, Garden and Flower 5-8-5 | New Britain |
| 677 | J-B Golf Green 10-4-3 | New Britain |
| | Greenlands Services, Inc., Concord, N. H. | |
| 1121 | Fertilizer for Lawns and Grass 6-8-6 | Hartford |
| 1120 | Fertilizer for Rhododendrons 4-6-4 | Hartford |
| | Killen & Hall, Inc., Darien, Conn. | |
| 888 | Killen and Hall Tree Food 8-5-2 | Darien |
| | McArdle's Seed Store, Greenwich, Conn. | |
| 767 | McArdle's Special Fertilizer 6-5-3 | Greenwich |

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH

| Nitrogen | | | | | Phosphoric acid | | | Potash | | Station No. |
|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|
| In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So-called (available) | As muriate | Total | |
| % | % | % | % | % | % | % | % | % | % | |
| 1.13 | 9.94 | 0.18 | 0.95 | 12.20 | 0.31 | 4.91 | 4.60 | 2.65 | 4.00 | 886 |
| ..... | ..... | ..... | ..... | ..... | 0.49 | 19.21 | 18.72 | 22.83 | 22.83 | 925 |
| 1.15 | 3.00 | 0.22 | 0.11 | 4.48 | 0.73 | 15.40 | 14.67 | 23.38 | 23.38 | 522 |
| 0.67 | 4.26 | 0.32 | 0.21 | 5.46 | 0.50 | 11.00 | 10.50 | 10.45 | 10.45 | 395 |
| 0.00 | 3.46 | 1.35 | 0.22 | 5.03 | 0.71 | 16.01 | 15.30 | 5.33 | 6.02 | 396 |
| 1.43 | 5.22 | 0.26 | 0.20 | 7.11 | 0.38 | 8.20 | 7.82 | 7.77 | 7.77 | 397 |
| 0.62 | 0.72 | 2.58 | 3.37 | 8.29 | 0.41 | 5.74 | 5.33 | 0.70 | 8.76 | 803 |
| 1.73 | 6.10 | 0.18 | 0.25 | 8.26 | 0.46 | 16.40 | 15.94 | 8.46 | 8.46 | 924 |
| 1.06 | 6.92 | 0.04 | 0.17 | 8.19 | 0.37 | 16.69 | 16.32 | 16.81 | 16.81 | 398 |
| 0.00 | 5.34 | 2.46 | 0.20 | 8.00 | 0.83 | 26.19 | 25.36 | 8.15 | 8.15 | 393 |
| 2.11 | 7.78 | 0.06 | 0.23 | 10.18 | 0.25 | 6.49 | 6.24 | 3.55 | 5.39 | 926 |
| 2.12 | 7.30 | 0.28 | 0.23 | 9.93 | 0.25 | 11.29 | 11.04 | 10.31 | 10.31 | 394 |
| 1.53 | 4.46 | 0.50 | 0.31 | 6.80 | 0.33 | 7.31 | 6.98 | 7.23 | 7.75 | 1143 |
| 0.81 | 4.64 | 0.36 | 0.37 | 6.18 | 0.65 | 11.46 | 10.81 | 0.82 | 4.83 | 768 |
| 0.51 | 3.40 | 0.16 | 0.65 | 4.72 | 0.75 | 7.77 | 7.02 | 5.21 | 5.21 | 676 |
| 0.77 | 3.46 | 0.14 | 0.58 | 4.95 | 0.76 | 8.96 | 8.20 | 5.22 | 5.22 | 1118 |
| 0.31 | 1.64 | 1.24 | 6.31 | 9.50 | 1.94 | 7.63 | 5.69 | 3.91 | 3.91 | 677 |
| 3.78 | 0.52 | 0.26 | 1.86 | 6.42 | 0.47 | 9.15 | 8.68 | 6.28 | 6.28 | 1121 |
| 0.00 | 1.60 | 0.31 | 2.85 | 4.76 | 0.39 | 8.00 | 7.61 | 4.78 | 5.43 | 1120 |
| 0.00 | 2.46 | 2.26 | 3.91 | 8.63 | 0.49 | 6.35 | 5.86 | 1.22 | 2.03 | 888 |
| 0.62 | 1.50 | 1.30 | 3.34 | 6.76 | 0.19 | 6.83 | 6.64 | 3.64 | 4.26 | 767 |

TABLE 8. ANALYSES OF MIXED FERTILIZER

| Station No. | Manufacturer and Brand | Place of sampling |
|-------------|---|---------------------|
| | Old Deerfield Fertilizer Co., Inc., South Deerfield, Mass. | |
| 897 | Old Deerfield 5-5-15 Tobacco Starter, Bone and Potash | Suffield |
| 851 | Old Deerfield 5-8-7 + 2 | Simsbury |
| | (Potash other than Muriate) | |
| | Olds & Whipple, Inc., Hartford, Conn. | |
| 515 | O&W 3-10-4 Corn Special Fertilizer | East Hartford |
| 489 | O&W 4-8-4 Market Garden Fertilizer | East Hartford |
| 492 | O&W 5-3-5 Complete Tobacco Fertilizer | East Hartford |
| 494 | O&W 5-5-15 High Grade Tobacco Starter and Potash Compound | East Hartford |
| 490 | O&W 5-8-7 Potato and General Purpose Fertilizer | East Hartford |
| 805 | O&W 5-10-10 Fertilizer | East Hartford |
| 514 | O&W 6-3-5 Blue Label Tobacco Fertilizer ... | East Hartford |
| | (Potash derived from Cottonhull Ashes) | |
| 512 | O&W 6-3-6 Blue Label Tobacco Fertilizer ... | East Hartford |
| 511 | O&W 6-3-6 Blue Label Tobacco Fertilizer ... | East Hartford |
| | (Potash derived from Cottonhull Ashes) | |
| 493 | O&W 6-3-7 Special Tobacco Fertilizer | East Hartford |
| 379 | O&W 7-6-6 Fertilizer | Portland |
| 491 | O&W 7-7-7 Top Dressing and Grass Fertilizer | East Hartford |
| | Outpost Nurseries, Inc., Ridgefield, Conn. | |
| 923 | Outpost Plant Food 8-5-2 | Ridgefield |
| | Plantspur Products Co., Ridgefield, N. J. | |
| 861 | Plantspur Fertilizer 3-3-2 | New Haven |
| | Frank S. Platt Co., New Haven, Conn. | |
| 444 | Platco 5-8-7 Fertilizer | New Haven |
| 445 | Platt's 10-5-5 Lawn Fertilizer | New Haven |
| | The Rogers & Hubbard Co., Portland, Conn. | |
| 743 | Hubbard's All Soils Fertilizer 4-8-4 | Portland |
| 841 | Hubbard's Climax Tobacco Fertilizer 5-3-5 ... | Portland |
| 400 | Hubbard's Corn Fertilizer 4-8-7 | Portland |
| 1039 | Hubbard's Corn Fertilizer 4-8-7 | Portland |
| 671 | Hubbard's Corn and Grain Fertilizer 3-10-4 ... | New Britain |

¹State purchase.

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH

| Nitrogen | | | | | Phosphoric acid | | | Potash | | Station No. |
|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|-----------|-------|-------------|
| In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So called (available) | As murate | Total | |
| % | % | % | % | % | % | % | % | % | % | |
| 0.83 | 0.90 | 2.30 | 1.47 | 5.50 | 0.51 | 7.65 | 7.14 | 1.48 | 15.97 | 897 |
| 0.77 | 1.88 | 1.76 | 0.80 | 5.21 | 0.50 | 10.50 | 10.00 | 1.33 | 8.08 | 851 |
| 0.25 | 2.22 | 0.14 | 0.97 | 3.58 | 0.58 | 11.27 | 10.69 | 4.31 | 4.31 | 515 |
| 0.47 | 2.88 | 0.26 | 0.63 | 4.24 | 0.27 | 8.97 | 8.70 | 4.33 | 4.33 | 489 |
| 0.65 | 0.04 | 1.20 | 3.40 | 5.29 | 0.35 | 4.40 | 4.05 | 0.44 | 5.71 | 492 |
| 1.95 | 0.08 | 2.08 | 1.60 | 5.71 | 0.45 | 6.74 | 6.29 | 0.80 | 15.31 | 494 |
| 0.54 | 3.22 | 0.58 | 0.98 | 5.32 | 0.36 | 8.66 | 8.30 | 7.37 | 7.37 | 490 |
| 1.04 | 1.78 | 2.04 | 1.27 | 6.13 | 0.19 | 11.66 | 11.47 | 11.38 | 14.35 | 805 |
| 0.82 | 0.06 | 2.38 | 3.33 | 6.59 | 0.28 | 4.31 | 4.03 | 0.68 | 6.50 | 514 |
| 0.76 | 0.02 | 1.68 | 3.94 | 6.40 | 0.29 | 4.37 | 4.03 | 0.39 | 6.76 | 512 |
| 0.85 | 0.10 | 1.96 | 3.54 | 6.45 | 0.30 | 4.65 | 4.35 | 0.52 | 6.86 | 511 |
| 0.61 | 0.04 | 1.64 | 4.04 | 6.33 | 0.35 | 4.12 | 3.77 | 0.40 | 7.47 | 493 |
| 0.63 | 3.02 | 2.38 | 1.23 | 7.26 | 0.27 | 6.72 | 6.45 | 6.35 | 6.35 | 379 |
| 2.98 | 3.38 | 0.30 | 0.87 | 7.53 | 0.13 | 8.04 | 7.91 | 7.64 | 7.64 | 491 |
| 0.20 | 2.18 | 2.54 | 3.79 | 8.71 | 0.69 | 6.50 | 5.81 | 1.26 | 2.03 | 923 |
| 0.00 | 2.88 | 0.04 | 0.47 | 3.39 | 0.23 | 3.64 | 3.41 | 1.38 | 1.38 | 861 |
| 0.69 | 3.62 | 0.66 | 0.11 | 5.08 | 0.40 | 8.91 | 8.51 | 7.17 | 7.17 | 444 |
| 0.00 | 4.34 | 3.13 | 2.76 | 10.23 | 0.48 | 6.83 | 6.35 | 5.58 | 5.58 | 445 |
| 0.47 | 1.70 | 1.54 | 0.69 | 4.40 | 0.78 | 8.87 | 8.09 | 4.17 | 4.17 | 743 |
| 0.45 | 0.56 | 1.00 | 3.25 | 5.26 | 0.51 | 3.96 | 3.45 | 0.32 | 5.74 | 841 |
| 0.00 | 2.00 | 0.80 | 1.54 | 4.34 | 0.75 | 9.31 | 8.56 | 7.20 | 7.20 | 400 |
| 0.40 | 1.58 | 1.21 | 1.43 | 4.62 | 0.70 | 9.17 | 8.47 | 8.14 | 8.14 | 1039 |
| 0.49 | 2.12 | 0.20 | 0.77 | 3.58 | 0.80 | 10.91 | 10.11 | 4.72 | 4.72 | 671 |

TABLE 8. ANALYSES OF MIXED FERTILIZER

| Station No. | Manufacturer and Brand | Place of sampling |
|-------------|---|-------------------|
| 732 | Hubbard's Fruit Fertilizer 8-8-8 | Portland |
| 744 | Hubbard's Golf Course Fertilizer 8-6-2 | Portland |
| 747 | Hubbard's Gro-Fast Fertilizer 5-8-6 | Portland |
| 402 | Hubbard's High Potash Fertilizer 4-8-10 | Portland |
| 1040 | Hubbard's Mus-Gro 4-14-0 | Portland |
| 381 | Hubbard's Potato Fertilizer 5-8-7 | Portland |
| 759 | Hubbard's Seeding Fertilizer | Portland |
| 840 | Hubbard's Tobacco Grower 6-3-6 | Portland |
| 746 | Hubbard's Top Dressing | Portland |
| 842 | Hubbard's Vegetable Manure | Portland |
| 380 | Red H Brand 4-8-4 | Portland |
| 1038 | Red H Brand 4-8-7 | Portland |
| 384 | Red H Brand 4-8-10 | Portland |
| 383 | Red H Brand 5-8-7 | Portland |
| 760 | Red H Brand 5-10-10 | Portland |
| 745 | Red H Brand 7-6-6 | Portland |
| 844 | Red H Brand 7-7-7 | Portland |
| 382 | Red H Brand 8-16-14 | Portland |
| | O. M. Scott & Sons Co., Marysville, Ohio | |
| 673 | Scott's Turf Builder 10-6-4 | New Britain |
| | M. L. Shoemaker Co., Inc., Philadelphia, Pa. | |
| 833 | Shoemaker's "Swift Sure" 4-10-0 Tobacco Starter | Granby |
| | Stumpp & Walter Co., New York, N. Y. | |
| 879 | Sawco Emerald Grass Fertilizer 5-7-3 | Stamford |
| 881 | Sawco General Garden Fertilizer 5-10-5 | Stamford |
| 885 | Sawco Rose Food 3-4-2 | Stamford |
| | Summers Fertilizer Co., Inc., Baltimore, Md. | |
| 487 | Summer's Fertilizer 8-5-2 | Bridgeport |
| | Swift & Co. Fertilizer Works, Baltimore, Md. | |
| 678 | Vigoro 4-12-4 | New Britain |
| | Tennessee Corp., Lockland, Ohio | |
| 781 | Loma (5-10-4) | Greenwich |

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH

| Nitrogen | | | | | Phosphoric acid | | | Potash | | Station No. |
|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|
| In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So-called (available) | As muriate | Total | |
| % | % | % | % | % | % | % | % | % | % | |
| 2.23 | 5.54 | 0.18 | 0.16 | 8.11 | 0.35 | 9.00 | 8.65 | 6.38 | 8.12 | 732 |
| 0.00 | 2.86 | 3.20 | 2.94 | 9.00 | 0.17 | 7.05 | 6.88 | 2.15 | 2.61 | 744 |
| 0.00 | 2.58 | 0.55 | 2.37 | 5.50 | 0.24 | 8.92 | 8.68 | 4.98 | 6.00 | 747 |
| 0.87 | 1.66 | 1.58 | 0.62 | 4.73 | 0.68 | 8.89 | 8.21 | 9.52 | 9.52 | 402 |
| 0.60 | 1.98 | 1.22 | 1.00 | 4.80 | 4.37 | 16.97 | 12.60 | .... | .... | 1040 |
| 0.19 | 1.92 | 1.84 | 1.22 | 5.17 | 0.47 | 9.07 | 8.60 | 6.92 | 6.92 | 381 |
| 0.00 | 1.32 | 0.37 | 1.63 | 3.32 | 1.95 | 10.96 | 9.01 | 6.17 | 6.17 | 759 |
| 1.01 | 0.72 | 1.34 | 3.18 | 6.25 | 0.34 | 4.11 | 3.77 | 0.60 | 6.39 | 840 |
| 7.52 | 0.10 | 0.28 | 0.44 | 8.24 | 0.60 | 7.39 | 6.79 | 8.17 | 8.17 | 746 |
| 0.72 | 1.84 | 1.04 | 1.20 | 4.80 | 0.91 | 10.79 | 9.88 | 1.66 | 9.60 | 842 |
| 0.48 | 2.78 | 0.66 | 0.39 | 4.31 | 0.44 | 9.85 | 9.41 | 4.44 | 4.44 | 380 |
| 0.63 | 2.62 | 0.56 | 0.49 | 4.30 | 0.74 | 9.37 | 8.63 | 7.04 | 7.04 | 1038 |
| 0.27 | 2.58 | 0.74 | 0.47 | 4.06 | 0.40 | 8.96 | 8.56 | 10.43 | 10.43 | 384 |
| 0.58 | 3.72 | 0.68 | 0.42 | 5.40 | 0.32 | 8.93 | 8.61 | 7.56 | 7.56 | 383 |
| 0.65 | 3.66 | 0.74 | 0.53 | 5.58 | 0.30 | 10.78 | 10.48 | 10.64 | 10.64 | 760 |
| 0.23 | 5.92 | 0.36 | 0.49 | 7.00 | 0.15 | 6.71 | 6.56 | 5.92 | 5.92 | 745 |
| 0.45 | 3.56 | 2.20 | 0.44 | 6.65 | 0.18 | 8.25 | 8.07 | 6.81 | 6.81 | 844 |
| 0.26 | 5.96 | 1.96 | 0.20 | 8.38 | 0.30 | 16.32 | 16.02 | 13.36 | 13.36 | 382 |
| | | | | | | | | | | |
| 0.10 | 6.16 | 0.62 | 3.40 | 10.28 | 0.15 | 5.95 | 5.80 | 3.39 | 4.44 | 673 |
| | | | | | | | | | | |
| 0.77 | 2.26 | 0.16 | 0.75 | 3.94 | 1.87 | 12.50 | 10.63 | .... | .... | 833 |
| | | | | | | | | | | |
| 0.47 | 2.56 | 1.02 | 1.11 | 5.16 | 1.42 | 8.59 | 7.17 | 3.36 | 3.36 | 879 |
| 0.79 | 4.04 | 0.05 | 0.37 | 5.25 | 0.81 | 11.25 | 10.44 | 4.96 | 4.96 | 881 |
| 0.11 | 0.26 | 0.62 | 2.88 | 3.87 | 4.94 | 13.61 | 8.67 | 2.71 | 2.71 | 885 |
| | | | | | | | | | | |
| 0.14 | 3.88 | 3.20 | 1.28 | 8.50 | 0.58 | 5.26 | 4.68 | 1.58 | 2.15 | 487 |
| | | | | | | | | | | |
| 0.32 | 3.50 | 0.20 | 0.18 | 4.20 | 0.77 | 12.77 | 12.00 | 4.15 | 4.15 | 678 |
| | | | | | | | | | | |
| 0.32 | 3.92 | 0.16 | 0.60 | 5.00 | 0.45 | 10.63 | 10.18 | 4.11 | 4.11 | 781 |

TABLE 8. ANALYSES OF MIXED FERTILIZER

| Station No. | Manufacturer and Brand | Place of sampling |
|-------------|--|-------------------|
| | I. P. Thomas & Son Co., Camden, N. J. | |
| 446 | I. P. Thomas 3-10-6 | Hamden |
| 680 | I. P. Thomas 5-8-7 | Wallingford |
| | F. H. Woodruff & Sons, Inc., Milford, Conn. | |
| 333 | Gro-Sod Lawn Food 10-6-4 | Milford |
| | Woodruff Fertilizer Works, Inc., Orange, Conn. | |
| 338 | Woodruff's Big Crop Fertilizer 5-8-7 | Orange |
| 819 | Woodruff's Corn Fertilizer 4-16-4 | Orange |
| 339 | Woodruff's Double Strength 8-16-16 | Orange |
| 681 | Woodruff's Market Garden Fertilizer 4-8-4 ... | North Haven |
| 337 | Woodruff's Top Dresser 7-6-6 | Orange |
| 820 | Woodruff's 3-10-6 Fertilizer | Orange |
| 488 | Woodruff's Yankee Special Fertilizer 5-10-5 .. | Orange |

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH

| Nitrogen | | | | | Phosphoric acid | | | Potash | | Station No. |
|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|
| In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So-called (available) | As muriate | Total | |
| % | % | % | % | % | % | % | % | % | % | |
| 0.18 | 1.88 | 1.06 | 0.31 | 3.43 | 1.24 | 10.89 | 9.65 | 6.32 | 6.32 | 446 |
| 0.36 | 3.78 | 0.44 | 0.42 | 5.00 | 0.68 | 8.68 | 8.00 | 7.16 | 7.16 | 680 |
| 0.20 | 5.16 | 3.26 | 1.80 | 10.42 | 0.24 | 6.34 | 6.10 | 4.31 | 4.31 | 333 |
| 0.74 | 2.46 | 0.56 | 1.06 | 4.82 | 0.52 | 8.49 | 7.97 | 7.09 | 7.09 | 338 |
| 1.12 | 2.26 | 0.14 | 0.65 | 4.17 | 0.85 | 17.16 | 16.31 | 4.18 | 4.18 | 819 |
| 0.00 | 3.04 | 4.33 | 0.63 | 8.00 | 0.68 | 16.74 | 16.06 | 15.78 | 15.78 | 339 |
| 0.65 | 2.46 | 0.20 | 0.68 | 3.99 | 0.51 | 8.60 | 8.09 | 4.33 | 4.33 | 681 |
| 0.93 | 4.46 | 0.46 | 0.71 | 6.56 | 0.33 | 6.16 | 5.83 | 7.08 | 7.08 | 337 |
| 0.00 | 2.30 | 0.15 | 0.65 | 3.10 | 0.76 | 11.09 | 10.33 | 6.59 | 6.59 | 820 |
| 0.64 | 2.92 | 0.34 | 1.12 | 5.02 | 0.66 | 10.84 | 10.18 | 5.73 | 5.73 | 488 |

TABLE 8a. CHEMICAL DEFICIENCIES

| Manufacturer or Dealer | Number of samples | Number of guaranties | Deficiencies in | | | |
|--|-------------------|----------------------|-----------------|--------------------|--------|-------|
| | | | Nitrogen | Available P_2O_5 | Potash | Total |
| Acme Guano Co., The | 10 | 30 | 3 | 3 | 1 | 7 |
| American Agricultural Chemical Co. | 20 | 60 | 2 | 1 | 3 | 6 |
| Apothecaries Hall Co. | 18 | 53 | 1 | 1 | 1 | 3 |
| Armour Fertilizer Works | 11 | 33 | 2 | 0 | 2 | 4 |
| Associated Seed Growers, Inc. | 1 | 3 | 1 | 0 | 0 | 1 |
| Bartlett, F. A., Tree Expert Co., Inc. | 1 | 3 | 0 | 0 | 0 | 0 |
| Baugh & Sons Co., The | 8 | 24 | 1 | 0 | 2 | 3 |
| Berkshire Chemical Co. | 19 | 57 | 1 | 1 | 1 | 3 |
| Connecticut Toro Co. | 1 | 3 | 1 | 0 | 0 | 1 |
| Consolidated Rendering Co. | 14 | 42 | 2 | 2 | 0 | 4 |
| Davey Tree Expert Co., The | 1 | 3 | 0 | 0 | 0 | 0 |
| Eastern States Farmers' Exchange. | 11 | 33 | 0 | 2 | 0 | 2 |
| Emerson, Thos. W., Co. | 1 | 3 | 1 | 0 | 0 | 1 |
| General Chemical Co., Mechling | | | | | | |
| Products Div. | 1 | 3 | 0 | 0 | 0 | 0 |
| Goulard & Olena, Inc. | 3 | 9 | 2 | 1 | 0 | 3 |
| Greenlands Services, Inc. | 2 | 6 | 0 | 0 | 0 | 0 |
| Killan & Hall, Inc. | 1 | 3 | 0 | 0 | 0 | 0 |
| McArdle's Seed Store | 1 | 3 | 0 | 0 | 0 | 0 |
| Old Deerfield Fertilizer Co., Inc. .. | 2 | 6 | 0 | 0 | 0 | 0 |
| Olds & Whipple, Inc. | 12 | 36 | 0 | 0 | 0 | 0 |
| Outpost Nurseries, Inc. | 1 | 3 | 0 | 0 | 0 | 0 |
| Plantspur Products Co. | 1 | 3 | 0 | 0 | 1 | 1 |
| Platt, Frank S., Co. | 2 | 6 | 0 | 0 | 0 | 0 |
| Rogers & Hubbard Co., The | 23 | 69 | 2 | 1 | 3 | 6 |
| Scott, O. M. & Sons Co. | 1 | 3 | 0 | 0 | 0 | 0 |
| Shoemaker, M. L. Co. | 1 | 2 | 0 | 0 | 0 | 0 |
| Stumpp & Walter Co. | 3 | 9 | 0 | 0 | 0 | 0 |
| Summers Fertilizer Co., Inc. | 1 | 3 | 0 | 1 | 0 | 1 |
| Swift & Co., Fertilizer Works | 1 | 3 | 0 | 0 | 0 | 0 |
| Tennessee Corp. | 1 | 3 | 0 | 0 | 0 | 0 |
| Thomas, I. P., & Son Co. | 2 | 6 | 0 | 1 | 0 | 1 |
| Woodruff, F. H., & Sons, Inc. | 1 | 3 | 0 | 0 | 0 | 0 |
| Woodruff Fertilizer Works, Inc., The | 7 | 21 | 2 | 0 | 1 | 3 |
| | 183 | 547 | 21 | 14 | 15 | 50 |

TABLE 9. ANALYSES OF SPECIAL AND HOME MIXTURES

| Station No. | Name of Mixture | Sampled or submitted by | Total nitrogen | Phosphoric acid | | | Potash | | | Station No. |
|-------------|---|------------------------------------|----------------|-------------------|-------|-----------------------|------------|-------|----------|-------------|
| | | | | Citrate-insoluble | Total | So-called (available) | As muriate | Total | Chlorine | |
| 1013 | Fertilizer Sample X | Bloomfield: American Sumatra | % | % | % | % | % | % | % | 1013 |
| 107 | Formula C—Welch Division .. | Tobacco Corp. | 5.90 | 0.36 | 4.14 | 3.78 | 0.58 | 7.21 | 0.44 | 1013 |
| 108 | Formula C—Sanford Division.. | Bloomfield: American Sumatra | 5.59 | 0.28 | 3.70 | 3.42 | 0.48 | 8.29 | 0.36 | 107 |
| 9995 | Fertilizer 1941 Formula A HU | Tobacco Corp. | 5.65 | 0.25 | 3.83 | 3.58 | 0.45 | 7.94 | 0.34 | 108 |
| 9996 | Fertilizer Formula 1941 A P .. | Hartford: Consolidated Cigar Corp. | 6.00 | 0.50 | 3.95 | 3.45 | 0.31 | 6.78 | 0.23 | 9995 |
| 9997 | Fertilizer 1941 Formula A with 1940 A | Hartford: Consolidated Cigar Corp. | 6.04 | 0.40 | 3.90 | 3.50 | 0.31 | 7.93 | 0.23 | 9996 |
| 109 | Fertilizer 1941 Formula B with 1940 B P | Hartford: Consolidated Cigar Corp. | 6.00 | 0.58 | 3.95 | 3.37 | 0.35 | 6.77 | 0.26 | 9997 |
| 435 | Fertilizer Formula B Gn. Cono. 1941 | Hartford: Consolidated Cigar Corp. | 6.11 | 0.33 | 3.55 | 3.22 | 0.35 | 6.49 | 0.26 | 109 |
| 436 | Fertilizer Formula A M 1941 .. | Hartford: Consolidated Cigar Corp. | 5.92 | 0.25 | 3.29 | 3.04 | 0.47 | 6.22 | 0.35 | 435 |
| 437 | Fertilizer Formula B Gr. 1941 .. | Hartford: Consolidated Cigar Corp. | 5.75 | 0.21 | 3.82 | 3.61 | 0.65 | 7.19 | 0.49 | 436 |
| 438 | Fertilizer Formula A Gr. 1941 .. | Hartford: Consolidated Cigar Corp. | 6.25 | 0.30 | 3.51 | 3.21 | 0.53 | 5.97 | 0.40 | 437 |
| 439 | Fertilizer Formula B M 1941 .. | Hartford: Consolidated Cigar Corp. | 6.03 | 0.40 | 4.31 | 3.91 | 0.70 | 7.79 | 0.53 | 438 |
| 440 | Fertilizer Formula A De 1941 .. | Hartford: Consolidated Cigar Corp. | 5.78 | 0.28 | 3.43 | 3.15 | 0.48 | 6.41 | 0.36 | 439 |
| 441 | Fertilizer Dec 40-41B 1941 | Hartford: Consolidated Cigar Corp. | 6.16 | 0.27 | 3.85 | 3.58 | 0.56 | 8.12 | 0.42 | 440 |
| 442 | Fertilizer Formula B Dec 1941 .. | Hartford: Consolidated Cigar Corp. | 5.76 | 0.25 | 3.40 | 3.15 | 0.56 | 5.93 | 0.42 | 441 |
| 443 | Fertilizer Formula C M 1941 .. | Hartford: Consolidated Cigar Corp. | 5.88 | 0.21 | 3.29 | 3.08 | 0.58 | 6.33 | 0.44 | 442 |
| 214 | Home Mixed Fertilizer Formula 3-S-3-41 | Hartford: Consolidated Cigar Corp. | 7.69 | 0.35 | 4.26 | 3.91 | 0.25 | 1.54 | 0.19 | 443 |
| | | Simsbury: Cullman Bros., Inc. | 4.72 | 0.29 | 4.41 | 4.12 | 0.68 | 6.23 | 0.51 | 214 |

TABLE 9. ANALYSES OF SPECIAL AND HOME MIXTURES—Continued

| Station No. | Name of Mixture | Sampled or submitted by | Total nitrogen | Phosphoric acid | | Potash | | | Station No. |
|-------------|---|------------------------------------|----------------|-------------------|-------|-----------------------|------------|-------|-------------|
| | | | | Citrate-insoluble | Total | So-called (available) | As muriate | Total | |
| | | | % | % | % | % | % | % | |
| 230 | Home Mixed Fertilizer Formula 2-KS-4-41 | Simsbury: Cullman Bros., Inc. | 4.28 | 0.33 | 6.07 | 5.74 | 1.24 | 10.64 | 230 |
| 231 | Home Mixed Fertilizer Formula 2-K-5-41 | Simsbury: Cullman Bros., Inc. | 5.00 | 0.34 | 4.78 | 4.44 | 1.08 | 8.53 | 231 |
| 232 | Home Mixed Fertilizer Formula 2-KW-4-41 | Simsbury: Cullman Bros., Inc. | 4.24 | 0.27 | 18.31 | 18.04 | 0.27 | 1.24 | 232 |
| 233 | Home Mixed Fertilizer Formula 2-KS-4-41-N | Simsbury: Cullman Bros., Inc. | 5.92 | 0.20 | 6.09 | 5.89 | 0.69 | 5.31 | 233 |
| 234 | Home Mixed Fertilizer Formula 4-2-41 | Simsbury: Cullman Bros., Inc. | 6.57 | 0.84 | 4.11 | 3.27 | 0.52 | 6.40 | 234 |
| 347 | Home Mixed Fertilizer Formula 5-4-41 | Simsbury: Cullman Bros., Inc. | 3.88 | 0.28 | 4.15 | 3.87 | 1.37 | 12.36 | 347 |
| 348 | Home Mixed Fertilizer Formula 5-3-41 | Simsbury: Cullman Bros., Inc. | 4.37 | 0.26 | 4.96 | 4.70 | 1.00 | 8.74 | 348 |
| 349 | Home Mixed Fertilizer Formula 5-6-41 | Simsbury: Cullman Bros., Inc. | 5.00 | 0.16 | 4.33 | 4.17 | 1.00 | 8.38 | 349 |
| 350 | Home Mixed Fertilizer Formula 5-8-41 | Simsbury: Cullman Bros., Inc. | 4.94 | 0.30 | 4.83 | 4.53 | 0.74 | 6.72 | 350 |
| 351 | Home Mixed Fertilizer Formula 2-SJ-41 | Simsbury: Cullman Bros., Inc. | 4.88 | 0.26 | 6.11 | 5.85 | 0.93 | 8.25 | 351 |
| 352 | Home Mixed Fertilizer Formula 2-N-1-41 | Simsbury: Cullman Bros., Inc. | 5.10 | 0.34 | 6.83 | 6.49 | 0.70 | 6.36 | 352 |
| 353 | Home Mixed Fertilizer Formula 5-5-41 | Simsbury: Cullman Bros., Inc. | 5.43 | 0.21 | 5.12 | 4.91 | 0.78 | 6.59 | 353 |

| | | | | | | | | | | |
|-----|---|------------------------------------|------|------|------|------|------|------|------|-----|
| 354 | Home Mixed Fertilizer Formula 4-3-41 | Simsbury: Cullman Bros., Inc. | 6.53 | 0.21 | 4.14 | 3.93 | 0.32 | 4.78 | 0.24 | 354 |
| 355 | Home Mixed Fertilizer Formula 3-H-1-41 | Simsbury: Cullman Bros., Inc. | 5.46 | 0.28 | 5.22 | 4.94 | 0.45 | 5.22 | 0.34 | 355 |
| 603 | Home Mixed Fertilizer Formula 2-H-2-41 | Simsbury: Cullman Bros., Inc. | 5.27 | 0.33 | 6.44 | 6.11 | 0.72 | 7.67 | 0.54 | 603 |
| 604 | Home Mixed Fertilizer Formula 2-N-2-41 | Simsbury: Cullman Bros., Inc. | 4.65 | 0.27 | 5.21 | 4.94 | 0.85 | 5.35 | 0.64 | 604 |
| 605 | Home Mixed Fertilizer Formula 2-N-3-41 | Simsbury: Cullman Bros., Inc. | 5.16 | 0.32 | 5.26 | 4.94 | 0.88 | 9.11 | 0.66 | 605 |
| 606 | Home Mixed Fertilizer Formula 2-HAL-3-41 | Simsbury: Cullman Bros., Inc. | 5.09 | 0.29 | 5.20 | 4.91 | 0.65 | 6.14 | 0.49 | 606 |
| 607 | Home Mixed Fertilizer Formula 2-H-1-41 | Simsbury: Cullman Bros., Inc. | 5.35 | 0.31 | 6.00 | 5.69 | 0.90 | 6.18 | 0.68 | 607 |
| 608 | Home Mixed Fertilizer Formula 1-A-6-41 | Simsbury: Cullman Bros., Inc. | 5.84 | 0.28 | 4.35 | 4.07 | 0.47 | 4.78 | 0.35 | 608 |
| 609 | Home Mixed Fertilizer Formula 1-A-7-41 | Simsbury: Cullman Bros., Inc. | 6.11 | 0.25 | 4.04 | 3.79 | 0.68 | 6.18 | 0.51 | 609 |
| 610 | Home Mixed Fertilizer Formula 1-A-8-41 | Simsbury: Cullman Bros., Inc. | 6.19 | 0.25 | 4.22 | 3.97 | 0.60 | 5.84 | 0.45 | 610 |
| 611 | Home Mixed Fertilizer Formula 1-A-4-41 | Simsbury: Cullman Bros., Inc. | 4.94 | 0.26 | 6.04 | 5.78 | 0.68 | 4.95 | 0.51 | 611 |
| 612 | Home Mixed Fertilizer Formula 1-A-5-41 | Simsbury: Cullman Bros., Inc. | 5.64 | 0.25 | 4.96 | 4.71 | 0.40 | 6.22 | 0.30 | 612 |

TABLE 9. ANALYSES OF SPECIAL AND HOME MIXTURES—Continued

| Station No. | Name of Mixture | Sampled or submitted by | Total nitrogen | Phosphoric acid | | | Potash | | Station No. |
|-------------|---|------------------------------------|----------------|-------------------|-------|-----------------------|------------|-------|-------------|
| | | | | Citrate-insoluble | Total | So-called (available) | As muriate | Total | |
| | | | % | % | % | % | % | % | |
| 613 | Home Mixed Fertilizer Formula 1-A-3-41 | Simsbury: Cullman Bros., Inc. | 4.73 | 0.28 | 7.32 | 7.04 | 0.43 | 6.25 | 613 |
| 616 | Home Mixed Fertilizer Formula 2-H1A-41 | Simsbury: Cullman Bros., Inc. | 4.59 | 0.26 | 5.79 | 5.53 | 0.56 | 6.66 | 616 |
| 617 | Home Mixed Fertilizer Formula 2-LB-41 | Simsbury: Cullman Bros., Inc. | 4.71 | 0.26 | 4.76 | 4.50 | 0.52 | 6.88 | 617 |
| 630 | Home Mixed Fertilizer Formula 4-6-41 | Simsbury: Cullman Bros., Inc. | 6.17 | 0.27 | 4.52 | 4.25 | 0.24 | 6.67 | 630 |
| 631 | Home Mixed Fertilizer Formula 1-SH-41 | Simsbury: Cullman Bros., Inc. | 4.69 | 0.29 | 5.03 | 4.74 | 0.24 | 7.58 | 631 |
| 632 | Home Mixed Fertilizer 1-B-3-41 | Simsbury: Cullman Bros., Inc. | 5.34 | 0.20 | 5.15 | 4.95 | 0.20 | 5.74 | 632 |
| 633 | Home Mixed Fertilizer 1-MOS-2-41 | Simsbury: Cullman Bros., Inc. | 4.72 | 0.34 | 6.41 | 6.07 | 0.27 | 8.64 | 633 |
| 634 | Home Mixed Fertilizer 1-M-1-41 | Simsbury: Cullman Bros., Inc. | 5.20 | 0.20 | 4.69 | 4.49 | 0.36 | 7.47 | 634 |
| 722 | Home Mixed Fertilizer Formula 1-PAST-41 | Simsbury: Cullman Bros., Inc. | 5.32 | 0.36 | 5.72 | 5.36 | 0.47 | 5.74 | 722 |
| 723 | Home Mixed Fertilizer Formula 1-B-2-41 | Simsbury: Cullman Bros., Inc. | 4.91 | 0.28 | 4.88 | 4.60 | 0.70 | 7.00 | 723 |
| 724 | Home Mixed Fertilizer Formula 1-B-4-41 | Simsbury: Cullman Bros., Inc. | 5.37 | 0.35 | 5.80 | 5.45 | 0.51 | 5.58 | 724 |
| 725 | Home Mixed Fertilizer Formula 1-MC-1-41 | Simsbury: Cullman Bros., Inc. | 5.55 | 0.28 | 4.26 | 3.98 | 0.32 | 3.44 | 725 |

| | | | | | | | | | | |
|------------------|---|-------------------------------------|------|------|-------|-------|-------|-------|------|-----|
| 860 | Home Mixed Fertilizer Formula 3-H-3-41 | Simsbury: Cullman Bros., Inc. | 5.52 | 0.23 | 4.23 | 4.00 | 0.62 | 5.67 | 0.47 | 860 |
| 615 | 5-8-7 Mixture from O. D. Fertilizer Co., Inc. | Simsbury: Cullman Bros., Inc. | 5.50 | 0.50 | 10.31 | 9.81 | 0.56 | 7.90 | 0.42 | 615 |
| 614 | Special Potato Mixture with Sulphate of Potash (Apothecaries Hall) | Simsbury: Cullman Bros., Inc. | 5.48 | 0.32 | 9.44 | 9.12 | 0.40 | 11.56 | 0.30 | 614 |
| 757 ¹ | Special Potato Mixture with Sulphate of Potash (Apothecaries Hall) | Simsbury: Cullman Bros., Inc. | 5.44 | 0.15 | 9.15 | 9.00 | 0.62 | 10.85 | 0.47 | 757 |
| 967 | Home Mixed Fertilizer No. 1.. | Marion: Daigle Bros. | 6.61 | 0.32 | 11.86 | 11.54 | 11.63 | 11.63 | ... | 967 |
| 968 | Home Mixed Fertilizer No. 2.. | Marion: Daigle Bros. | 6.53 | 0.35 | 12.25 | 11.90 | 10.94 | 10.94 | ... | 968 |
| 969 | Home Mixed Fertilizer No. 3.. | Marion: Daigle Bros. | 7.11 | 0.33 | 12.16 | 11.83 | 9.91 | 9.91 | ... | 969 |
| 369 | Mixed Fertilizer, Formula 41-B No. 31 Hazardville Farm | Hartford: L. B. Haas & Co., Inc.... | 6.35 | 0.21 | 4.78 | 4.57 | 0.70 | 6.43 | 0.53 | 369 |
| 370 | Mixed Fertilizer, Formula 41-A No. 32 Hazardville Farm | Hartford: L. B. Haas & Co., Inc.... | 6.32 | 0.33 | 4.80 | 4.47 | 0.76 | 6.67 | 0.57 | 370 |
| 371 | Mixed Fertilizer, Formula 41-B No. 33 Hazardville Farm | Hartford: L. B. Haas & Co., Inc.... | 6.26 | 0.18 | 4.87 | 4.69 | 0.72 | 6.32 | 0.54 | 371 |
| 372 | Mixed Fertilizer, Formula 41-A No. 34 Hazardville Farm | Hartford: L. B. Haas & Co., Inc.... | 6.31 | 0.25 | 4.88 | 4.63 | 0.66 | 6.61 | 0.50 | 372 |
| 373 | Mixed Fertilizer (with Lime) No. 35 — Huntington Bros., Windsor, Conn. | Hartford: L. B. Haas & Co., Inc.... | 6.19 | 0.21 | 5.17 | 4.96 | 0.68 | 6.47 | 0.51 | 373 |

¹Sampled by Station Agent.

TABLE 9. ANALYSES OF SPECIAL AND HOME MIXTURES—(Concluded)

| Station No. | Name of Mixture | Sampled or submitted by | Total nitrogen | Phosphoric acid | | | Potash | | | Station No. |
|-------------|--|--|----------------|-------------------|-------|-----------------------|-----------|-------|----------|-------------|
| | | | | Citrate-insoluble | Total | So-called (available) | As murate | Total | Chlorine | |
| 374 | Mixed Fertilizer No. 36—Huntington Bros., Windsor, Conn. | Hartford: L. B. Haas & Co., Inc... | 6.53 | 0.25 | 5.66 | 5.41 | 0.72 | 6.71 | 0.54 | 374 |
| 8769 | Fertilizer Mixture | So. Windsor: Leslie W. Newberry | 5.86 | 0.53 | 8.40 | 7.87 | 0.31 | 9.37 | 0.23 | 8769 |
| 637 | Tobacco Mixture | So. Windsor: Leslie W. Newberry | 7.00 | 0.21 | 2.51 | 2.30 | 0.51 | 9.38 | 0.39 | 637 |
| 164 | Fertilizer, 1941 Formula A—2nd P | Hartford: Silberman & Kahn Corp. | 6.12 | 0.25 | 3.91 | 3.66 | 0.37 | 7.93 | 0.28 | 164 |
| 165 | Fertilizer, 1941 Formula—B. P. | Hartford: Silberman & Kahn Corp. | 6.00 | 0.25 | 3.58 | 3.33 | 0.47 | 7.06 | 0.35 | 165 |
| 166 | Fertilizer, 1941 Formula—B. H. B + C | Hartford: Silberman & Kahn Corp. | 6.10 | 0.21 | 3.74 | 3.53 | 0.64 | 6.42 | 0.48 | 166 |
| 638 | Home Mixed Fertilizer, 1941 Formula A—Dec | Hartford: Silberman & Kahn Corp. | 6.08 | 0.20 | 3.75 | 3.55 | 0.31 | 6.99 | 0.23 | 638 |
| 639 | Home Mixed Fertilizer, 1941 Formula A—With 40 A | Hartford: Silberman & Kahn Corp. | 5.95 | 0.26 | 3.90 | 3.64 | 0.31 | 6.51 | 0.23 | 639 |
| 90 | 8-4-8 Tobacco Fertilizer Mixture (Apothecaries Hall) | Windsor: Tobacco Station Dr. T. R. Swanback | 8.50 | 0.35 | 6.03 | 5.68 | 0.54 | 8.77 | 0.41 | 90 |

¹Calcium (CaO) 6.65%; magnesium (MgO) 3.82%.

TABLE 10. ANALYSES OF SHEEP MANURE, ETC.

| Station No. | Manufacturer and Brand | Place of sampling | Nitrogen | | Total phosphoric acid | | Potash | | Station No. |
|-------------|--|---|----------|------------|-----------------------|-------------------|-----------|------------|-------------|
| | | | Found | Guaranteed | Found | Guaranteed | Found | Guaranteed | |
| 449 | Pulverized Sheep and Goat Manure. American Agricultural Chemical Co., No. Weymouth, Mass. | West Haven: American Agricultural Chemical Co. | 1.36 | % 1.25 | % 1.91 | % 1.00 | % 2.79 | % 2.00 | 449 |
| 429 | Sheep Manure. Apothecaries Hall Co., Waterbury, Conn. | East Windsor: Apothecaries Hall Co. | 1.88 | 1.00 | 1.39 | 0.50 | 3.59 | 1.00 | 429 |
| 807 | Armour's Sheep and Goat Manure. Armour Fertilizer Works, New York, N. Y. | East Windsor Hill: David J. Ahern | 1.44 | 1.25 | 2.21 | 1.00 | 5.85 | 2.00 | 807 |
| 921 | Driconure, Atkins & Durbrow, Inc., New York, N. Y. | New Canaan: Clapboard Hill Co. ... | 2.22 | 2.00 | 3.03 | ¹ | 1.39 | 1.00 | 921 |
| 539 | Berkshire Sheep and Goat Manure. Berkshire Chemical Co., Bridgeport, Conn. | Danbury: Benjamin Grain Co. | 1.43 | 1.25 | 2.54 | 1.00 | 3.10 | 2.00 | 539 |
| 377 | Corenco Sheep Manure. Consolidated Rendering Co., Boston, Mass. | Branford: Collins & Freeman | 1.83 | 1.25 | 1.50 | 1.00 | 2.97 | 2.00 | 377 |
| 887 | Davey Shredded Cattle Manure. The Davey Tree Expert Co., Kent, Ohio | Old Greenwich: The Davey Tree Expert Co. | 2.28 | 1.00 | 2.44 | ² | 2.26 | 2.00 | 887 |
| 675 | G & O Sheep Manure. Goulard & Olena, Inc., New York, N. Y. | New Britain: Rackliffe Bros., Inc. ... | 2.00 | 1.00 | 3.76 | ³ | 3.62 | 2.00 | 675 |
| 692 | Wizard Brand Cow Manure. The Wizard Brand Manure Co., Chicago, Ill. | New London: Aben Hardware Co. | 2.20 | 2.00 | 1.53 | ⁴ | 2.20 | 1.00 | 692 |

¹Guaranteed "available" phosphoric acid 1.00%; found 2.75%.²Guaranteed "available" phosphoric acid 1.00%; found 2.17%.³Guaranteed "available" phosphoric acid 1.00%; found 2.53%.⁴Guaranteed "available" phosphoric acid 1.00%; found 1.22%.

TABLE 10. ANALYSES OF SHEEP MANURE, ETC.— (Concluded)

| Station No. | Manufacturer and Brand | Place of sampling | Nitrogen | | Total phosphoric acid | | Potash | | Station No. |
|-------------|--|---|----------|------------|-----------------------|-------------------|--------|------------|-------------|
| | | | Found | Guaranteed | Found | Guaranteed | Found | Guaranteed | |
| 693 | Wizard Brand Pulverized Sheep Manure. The Pulverized Manure Co., Chicago, Ill. | New London: Aben Hardware Co. | % | 2.05 | % | 1.85 | % | 3.13 | 693 |
| 742 | Hubbard's Sheep and Goat Manure. The Rogers & Hubbard Co., Portland, Conn. | Portland: The Rogers & Hubbard Co. | | | | ^b | | | |
| 884 | Sawco Cattle Manure. Stumpp & Walter Co., New York, N. Y. | Stamford: Stumpp & Walter Co. .. | 1.61 | 1.25 | 2.30 | 1.00 | 3.70 | 2.00 | 742 |
| 882 | Sawconure, Stumpp & Walter Co., New York, N. Y. | Stamford: Stumpp & Walter Co. .. | 2.24 | 1.80 | 2.20 | 1.00 | 1.78 | 1.00 | 884 |
| 883 | Sawco Pulverized Sheep Manure. Stumpp & Walter Co., New York, N. Y. | Stamford: Stumpp & Walter Co. .. | 2.48 | 3.00 | 2.72 | ^c | 1.30 | 1.00 | 882 |
| 690 | Swift's Sheep Manure. Swift & Co. Fertilizer Works, Baltimore, Md. .. | Stamford: Stumpp & Walter Co. .. | 2.50 | 2.00 | 1.59 | ^d | 2.53 | 2.00 | 883 |
| 691 | Bovung (Dehydrated Cow Manure). Walker-Gordon Laboratory Co., Inc., Plainsboro, N. J. | New London: G. M. Williams | 2.10 | 1.85 | 1.60 | 1.00 | 3.10 | 1.75 | 690 |
| | | New London: G. M. Williams | 2.06 | 2.00 | 2.58 | 2.00 | 2.40 | 2.00 | 691 |

^aGuaranteed "available" phosphoric acid 1.00%; found 1.58%.

^bGuaranteed "available" phosphoric acid 1.00%; found 2.49%.

^cGuaranteed "available" phosphoric acid 1.00%; found 1.37%.

TABLE 11. ANALYSES OF LIMESTONE AND SIMILAR MATERIALS

| Station No. | Manufacturer and Brand | Sampled from stock of or sent by | Chemical analysis | | | | Total oxides | Mechanical analysis | | Station No. | | |
|-------------|--|--|-------------------|------------|----------------|------------|--------------|------------------------|----------|-------------|------|-----|
| | | | Lime (CaO) | | Magnesia (MgO) | | | 20 mesh | 100 mesh | | | |
| | | | Found | Guaranteed | Found | Guaranteed | | | | | | |
| 253 | Sampled by Station Agent Coe Lime Works, Durham, Conn. | Cheshire: Connecticut Reformatory | % | 50.35 | % | 0.99 | % | 51.34 | % | 94.5 | 41.0 | 253 |
| 741 | New England Lime Co., Adams, Mass. | East Hartford: John M. Herr | 30.60 | 30.00 | 21.54 | 21.00 | 52.14 | 100.0 | 95.0 | 741 | | |
| 346 | U. S. Gypsum Co., Falls Village, Conn. | Manchester: C. R. Burr & Co. | 30.44 | 30.00 | 20.97 | 20.00 | 51.41 | 100.0 | 45.8 | 346 | | |
| 8397 | Sampled by purchaser or manufacturer | | | | | | | | | | | |
| 957 | American Limestone Quarry Corp., Wingdale, N. Y. | Hartford: Agricultural Conservation Program | 30.33 | 30.00 | 21.89 | 20.00 | 52.22 | 100.0 | 78.6 | 8397 | | |
| 958 | Ground Limestone | Hartford: Agricultural Conservation Program | 30.32 | 30.30 | 21.76 | 21.50 | 52.08 | 100.0 | ... | 957 | | |
| 959 | Ground Limestone | Hartford: Agricultural Conservation Program | 30.32 | 30.30 | 21.71 | 21.50 | 52.03 | 100.0 | ... | 958 | | |
| 959 | Ground Limestone | Hartford: Agricultural Conservation Program | 30.37 | 30.30 | 21.92 | 21.50 | 52.29 | 100.0 | ... | 959 | | |

TABLE 11. ANALYSES OF LIMESTONE AND SIMILAR MATERIALS—Continued

| Station No. | Manufacturer and Brand | Sampled from stock of or sent by | Chemical analysis | | | | Total oxides | Mechanical analysis | | Station No. |
|-------------|--|--|--|------------|----------------|------------|--------------|------------------------|----------|-------------|
| | | | Lime (CaO) | | Magnesia (MgO) | | | 20 mesh | 100 mesh | |
| | | | Found | Guaranteed | Found | Guaranteed | | | | |
| | | | % | % | % | % | % | % | % | |
| 8731 | Coe Lime Works, Durham, Conn. | Durham: R. S. Coe | 49.39 | .... | 0.83 | .... | 50.22 | 97.3 | 53.6 | 8731 |
| 818 | | Durham: R. S. Coe | 48.89 | .... | 0.67 | .... | 49.56 | 96.0 | 44.0 | 818 |
| 629 | Conklin Lime Co., Canaan, Conn. | Hartford: Agricultural Conservation Program | 28.61 | .... | 19.88 | .... | 48.49 | 99.9 | 58.1 | 629 |
| 954 | | Hartford: Agricultural Conservation Program | 29.38 | 30.00 | 20.47 | 21.00 | 49.85 | 100.0 | ... | 954 |
| 962 | Connecticut Agstone Co., Danbury, Conn. | Hartford: Agricultural Conservation Program | 29.88 | 30.00 | 20.82 | 21.00 | 50.70 | .... | ... | 962 |
| 8396 | | Hartford: Agricultural Conservation Program | 34.39 | 44.00 | 9.14 | 6.00 | 43.53 | 93.7 | 66.2 | 8396 |
| 900 | Ground Limestone | Hartford: Agricultural Conservation Program | 42.81 | 42.00 | 5.49 | 6.00 | 48.30 | 95.5 | ... | 900 |
| 901 | | Hartford: Agricultural Conservation Program | 42.54 | 42.00 | 4.62 | 6.00 | 47.16 | 95.5 | ... | 901 |
| 902 | Ground Limestone | Hartford: Agricultural Conservation Program | 38.35 | 42.00 | 7.14 | 6.00 | 45.49 | 92.0 | ... | 902 |
| 8776 | | Hitchcock Bros., Canaan, Conn. | Bloomfield: American Sumatra Tobacco Corp. | 45.74 | | 30.20 | | 75.94 | .... | ... | 8776 |
| 9749 | Hydrated Lime | Bloomfield: American Sumatra Tobacco Corp. | 46.63 | .... | 32.88 | .... | 79.51 | .... | ... | 9749 |
| | | | | | | | | | | |

| | | | | | | | | | | | |
|------|--|---------------------------------|--|-------|-------|-------|-------|-------|-------|------|------|
| 9796 | Lee Lime Co., Lee, Mass. | Hydrated Lime | Simsbury: Cullman Bros., Inc. | 47.33 | ..... | 33.07 | ..... | 80.40 | .... | ... | 9796 |
| 9797 | | Hydrated Lime | Simsbury: Cullman Bros., Inc. | 47.08 | ..... | 33.32 | ..... | 80.40 | .... | ... | 9797 |
| 9900 | | Hydrated Lime | Simsbury: Cullman Bros., Inc. | 73.07 | 70.00 | 0.81 | 0.50 | 73.88 | .... | ... | 9900 |
| 9899 | | Lime | Simsbury: Cullman Bros., Inc. | 47.95 | 47.00 | 33.93 | 31.00 | 81.88 | .... | ... | 9899 |
| 8398 | D. U. Smith, Ashley Falls, Mass. | Ground Limestone | Hartford: Agricultural Conservation Program | 30.64 | 18.00 | 21.56 | 25.00 | 52.20 | 100.0 | 40.7 | 8398 |
| 956 | | Ground Limestone | Hartford: Agricultural Conservation Program | 30.58 | 30.00 | 21.60 | 21.00 | 52.18 | 100.0 | ... | 956 |
| 960 | | Ground Limestone | Hartford: Agricultural Conservation Program | 30.52 | 30.00 | 21.56 | 21.00 | 52.08 | 100.0 | ... | 960 |
| 961 | | Ground Limestone | Hartford: Agricultural Conservation Program | 29.82 | 30.00 | 20.96 | 21.00 | 50.78 | 100.0 | ... | 961 |
| 8395 | U. S. Gypsum Lime Co., Falls Village, Conn. | Ground Limestone | Hartford: Agricultural Conservation Program | 31.22 | 30.00 | 20.92 | 20.00 | 52.14 | 100.0 | 36.6 | 8395 |
| 955 | | Ground Limestone | Hartford: Agricultural Conservation Program | 32.10 | 30.00 | 21.02 | 21.00 | 53.12 | 100.0 | ... | 955 |
| 1124 | | Ground Limestone | Falls Village: U. S. Gypsum Co. .. | 30.00 | .... | 21.98 | .... | 51.98 | 100.0 | 51.3 | 1124 |
| 7701 | Manufacturer Unknown | Limestone Flour, Frank's | Hartford: Central Connecticut Co-op. Farmers Asso., Inc. | 54.25 | .... | 0.51 | .... | 54.76 | .... | ... | 7701 |
| 7702 | | Limestone Flour, Bennie's | Hartford: Central Connecticut Co-op. Farmers Asso., Inc. | 54.00 | .... | 0.43 | .... | 54.43 | .... | ... | 7702 |

TABLE 11. ANALYSES OF LIMESTONE AND SIMILAR MATERIALS.—(Concluded)

| Station No. | Manufacturer and Brand | Sampled from stock of or sent by | Chemical analysis | | | | Total oxides | Mechanical analysis | | Station No. | |
|-------------|---|---|-------------------|------------|----------------|------------|--------------|------------------------|----------|-------------|----|
| | | | Lime (CaO) | | Magnesia (MgO) | | | 20 mesh | 100 mesh | | |
| | | | Found | Guaranteed | Found | Guaranteed | | | | | |
| 9802 | Agricultural Hydrated Lime — Portland Farm | Hartford: Consolidated Cigar Corp. | % | 47.31 | % | 32.52 | % | 79.83 | % | 9802 | |
| 9851 | Calcic Lime | Simsbury: Cullman Bros., Inc., Farm No. 2 | | 73.92 | | 0.62 | | 74.54 | | 9851 | |
| 9854 | Hydrated Lime | Simsbury: Cullman Bros., Inc., Farm No. 1 | | 73.03 | | 0.85 | | 73.88 | | 9854 | |
| 9902 | Land Plaster — Car Redd. 4720 | Simsbury: Cullman Bros., Inc., Farm No. 1 | | 33.41 | | 0.23 | | 33.64 | | 9902 | |
| 1061 | Spray Lime | Simsbury: Cullman Bros., Inc., Farm No. 1 | | 71.01 | | 0.56 | | 71.57 | | 1061 | |
| 9843 | Lime No. 25 | Hartford: L. B. Haas & Co., Inc. | | 46.40 | | 32.79 | | 79.19 | | 9843 | |
| 245 | Hydrated Lime | Hartford: The Hartman Tobacco Co., Buckland Farm | | 47.20 | | 32.95 | | 80.15 | | 245 | |
| 235 | Land Plaster | Hartford: The Hatheway-Stearne Corp. | | 33.51 | | 0.20 | | 33.71 | | 235 | |
| 505 | Land Plaster | Hartford: A. N. Shepard & Son | | 34.04 | | 0.07 | | 34.11 | | 505 | |
| 503 | Hydrated Lime | Hartford: A. N. Shepard & Son | | 46.08 | | 31.63 | | 77.71 | | 503 | |
| 88 | Hydrated Magnesium Lime | Windsor: Dr. T. R. Swanback, Tobacco Station | | 37.66 | | 26.30 | | 63.96 | | 88 | |
| 91 | Dolomitic Limestone | Windsor: Dr. T. R. Swanback, Tobacco Station | | 30.44 | | 21.59 | | 52.03 | 100.0 | 56.0 | 91 |

TABLE 12. ANALYSES OF MISCELLANEOUS MATERIALS

| Station No. | Material | Moisture | Ash | Organic and volatile | Nitrogen | Phosphoric acid | Potash |
|-------------------|---|-----------|-------|----------------------|--------------------|-----------------|--------|
| 698-703 | Wool Waste, Broad Brook Co., Broad Brook, Conn. . . | % | % | % | % | % | % |
| | Burr and breast waste . . . | .... | .... | .... | 8.2 | ... | ... |
| | Flyings and sweepings . . . | .... | .... | .... | 8.0 | ... | ... |
| | Card strippings . . . . . | .... | .... | .... | 7.0 | ... | ... |
| | Fulling mill flocks . . . . . | .... | .... | .... | 7.4 | ... | ... |
| | Dirt from waste duster . . . | .... | .... | .... | 4.0 | ... | ... |
| | Shear and napper flocks . . . | .... | .... | .... | 14.1 | ... | ... |
| 8554 | Beetle-ware waste . . . . . | .... | .... | .... | 18.98 ¹ | ... | ... |
| 602 ² | Barnyard manure + lime and phosphate | 76.2 | .... | .... | 0.27 | 0.34 | 0.42 |
| 7676 ³ | Incinerator ash, United Aircraft Co., East Hartford . . | .... | .... | .... | .... | 0.75 | 0.49 |
| 7641 | Maine peat moss, R. Cohen, Hartford | 19.61 | 2.66 | 77.73 | 1.27 | 1.08 | 0.08 |
| 6738 | Poultry manure | (dry) | 29.14 | 70.86 | 3.24 | 4.35 | 1.71 |
| 8360 | Sewage deposit (City of Meriden) No. 1 . . | 3.76 | 63.59 | 32.65 | 1.60 | 0.65 | ... |
| 8361 | Sewage deposit (City of Meriden) No. 2 . . | 12.75 | 43.25 | 44.00 | 1.77 | 0.60 | ... |
| 8362 | Sewage deposit (City of Meriden) No. 3 . . | 69.80 | 9.14 | 21.06 | 0.71 | 0.25 | ... |
| 903 | Sewage sludge (City of Torrington) | 28.90 | 44.02 | 27.08 | 1.24 | 0.95 | 0.36 |
| 1138 ⁴ | Tea leaf waste + lime (Lawn dressing) | 42.00 | 18.60 | 39.40 | 1.46 | 0.48 | 0.91 |
| 1099 | Furnace soot . . . . . | .... | .... | .... | 0.06 | 0.61 | 0.25 |
| 9953 ⁵ | Tobacco dust | (air-dry) | .... | .... | 2.94 | ... | 3.73 |
| 8141 ⁶ | Tobacco stems, Canadian No. 1, (Tobacco Station) . . | (air-dry) | .... | .... | 2.42 | ... | 6.78 |
| 8142 ⁷ | Tobacco stems, American No. 2, (Tobacco Station) . . | (air-dry) | .... | .... | 1.34 | ... | 4.54 |
| 8143 ⁸ | Tobacco stems, Canadian No. 3, (Tobacco Station) . . | (air-dry) | .... | .... | 0.99 | ... | 4.05 |
| 21 | Tobacco stems (Thompsonville) Tobacco Station . . | (air-dry) | .... | .... | 3.07 | ... | 8.62 |
| 1006 | Tobacco stems (85% Penn., 15% Ohio and Wisconsin) | 29.70 | .... | .... | 1.93 | 0.50 | 4.60 |
| 1027 | Tobacco stems (all Penn.) . . | 24.10 | .... | .... | 1.89 | 0.70 | 4.90 |

¹NO₃ none, NH₃ none, organic water-insol. 18.88, activity alk. permanganate 41%, neutral permanganate 66%.

²Cl 0.13%.

³Cl 0.11%, CaO 8.96%, MgO 3.55%.

⁴New Jersey source, CaO 9.02%.

⁵Nicotine 0.96%.

⁶Nicotine 0.77%.

⁷Nicotine 0.41%.

⁸Nicotine 0.28%.

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